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DSSD 2010 CENSUS COVERAGE MEASUREMENT MEMORANDUM SERIES #2010-G-05

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Subject: 2010 Census Coverage Measurement Estimation Report: Net Coverage for Housing Units in the United States

This report is one of twelve documents providing estimation results from the 2010 Census Coverage Measurement program. This report provides estimates of housing unit net coverage in the 2010 Census.

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Attachments

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Census Coverage Measurement Estimation Report

Net Coverage for Housing Units in the United States

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Executive Summary

This document summarizes the net coverage of the housing unit counts measured by the 2010 Census Coverage Measurement (CCM) program. The CCM produced, as in the past, net coverage estimates showing undercount or overcount results. This document makes comparisons to 2000 Accuracy and Coverage Evaluation (A.C.E.) results where appropriate.

Summary of findings about housing unit enumeration in the 2010 Census:

- The overall national housing unit undercount in the 2010 Census was 0.60% (0.20% standard error), nearly identical to the Census 2000 undercount of 0.61% (0.16% standard error).
- The estimated net undercount rate for occupied units was 0.03% (0.14% standard error) and not significantly different from zero, while vacant units had an undercount of 4.80% (1.06% standard error). These figures did not differ significantly from the Census 2000 figures of 0.33% (0.13% standard error) for Occupied units and 3.37% (0.98% standard error) for Vacant ones.
- There were net overcounts of housing units headed by members of several demographic groups; Blacks, Asians, persons of Some Other Race, and Hispanics showed housing unit overcounts of approximately half a percent. The only race group that showed a net undercount of housing units was the American Indian and Alaskan Native alone-or-in-combination On Reservation group at 3.38% (1.56% standard error).
- The Midwest, South and West regions showed net undercounts of 0.74%, 0.83% and 0.94%, respectively (0.43%, 0.35% and 0.37% standard errors).
- The net undercount rate for Single-Unit dwellings was 1.00% (0.14% standard error) and for Trailers was 1.96% (0.91% standard error). Small (2-9) Multi-Unit dwellings were overcounted at 1.82% (0.79% standard error).
- Mailout areas showed a net undercount of 0.47% (0.19% standard error) and Update/Enumerate areas had an undercount of 8.44% (2.72% standard error). The undercount in Update/Leave areas was not significant.

1. Introduction

The purpose of the 2010 Census Coverage Measurement (CCM) program was to evaluate coverage of the 2010 Census to aid in improving future censuses. The CCM was designed to measure the census coverage of housing units and persons, excluding group quarters and persons residing in group quarters, for the United States. The CCM sample design was a probability sample of 170,000 housing units. Remote areas of Alaska were out of scope for the CCM. The CCM program provided estimates of net coverage and components of census coverage by using a post-enumeration survey.

This report provides the net coverage estimates for the housing unit counts for the United States. Net coverage estimates are provided for major groups of housing units classified by their characteristics and those of their occupants, census operational areas, states, and large counties and places. This document provides comparisons to Census 2000 where available. Results of the components of census coverage for housing units in 2010 CCM are discussed in Keller and Fox (2012b). Net coverage results for persons in housing units can be found in Davis and Mulligan (2012), while results for the components of census coverage for persons in housing units can be found in Keller and Fox (2012a).

2. Methods

In this section, we discuss briefly the estimation method used in generating the net coverage for the housing counts. For more details on the CCM estimation methodology, see Mule (2008).

2.1 Dual System Estimation

Since the 1950 census, the Census Bureau has been conducting post-enumeration evaluations to estimate the size of error in census counts for areas and demographic groups and to use the information to improve census processes. The post-enumeration survey for 2010, called the 2010 Census Coverage Measurement survey, relied on dual system estimation (DSE) that required two independent systems of measurement. The Population Sample, P sample, and the Enumeration Sample, E sample, have traditionally defined the samples for dual system estimation. Both the P sample and the E sample measure the same housing unit and household population. However, the P-sample operations are conducted independent of the census. The E sample consists of census housing units and person enumerations in housing units in the same sample areas as the P sample. After matching with the census lists and reconciliation, the P sample provides information about the housing units and population missed in the census whereas the E sample provides information about erroneous census inclusions. This information is used in different ways to estimate the net coverage and the components of census coverage.

For 2010, instead of the post-stratification used for coverage estimates previously, we employed logistic regression modeling to estimate the parameters in the DSE formula for correct enumeration and match probabilities. We then estimated net coverage by comparing the estimate of the true population (from the DSE) to the census count, resulting in either a net undercount or a net overcount. The DSE can be expressed as

$$DSE_C = \sum_{j \in C} \frac{\pi_{ce(j)}}{\pi_{m(j)}}$$

With respect to the given estimation domain C, the predicted correct enumeration and match probabilities for census case j ($\pi_{ce(j)}$ and $\pi_{m(j)}$, respectively) were obtained through logistic regression modeling. This DSE formula differs from the one for persons (Davis 2012) because housing unit estimation does not have analogous concepts to whole-person imputation or correlation bias adjustment.

We used the same independent variables (main effects) in each model but we did not necessarily use the same interactions to make predictions of the probabilities of being correctly enumerated and of matching to the census. The main effects used in the models for the United States include

- Structure type and size of the dwelling
- Occupancy and tenure
- Region of the country
- Metropolitan Statistical Area (MSA) size by Type of Enumeration Area (TEA)
- Measures of the number of address list changes in the neighborhood near to Census Day
- Bilingual and Replacement Questionnaire Mailing Areas

See Olson (2012) for more details on the logistic regression models used to compute the correct enumeration and match probabilities in the above DSE formula.

2.2 *Synthetic Estimation*

The 2010 estimation approach used logistic regression modeling instead of a post-stratification design to produce synthetic estimates of net coverage. The parameters in the model were based on a national sample and then applied to each individual census case. Information collected at the individual level can be easily used in conjunction with information collected at a more aggregate level to provide estimates for various domains, even for small domains with little or no sample.

2.3 *Net Coverage Estimates*

The estimate of net undercount is the difference of the DSE and the census count. A positive estimate shows an undercount and a negative estimate of net coverage shows an overcount.

$$\text{Net Undercount} = DSE - \text{Census}$$

This report also provided the estimate of percent net undercount. The percent net undercount is the net undercount estimate divided by the DSE expressed as a percentage.

$$\text{Percent Net Undercount} = \left(\frac{DSE - \text{Census}}{DSE} \right) \times 100$$

2.4 Measures of Uncertainty

We used delete-a-group jackknife replication to estimate standard errors of net coverage. For governmental entities like states, counties, and places, the jackknife standard errors for net coverage might underestimate the true error by not capturing the potential bias introduced from synthetic estimation. Therefore, we produced estimates of root mean squared error for these governmental entities. The root mean squared error estimate includes an estimate of synthetic bias to the jackknife sampling variance estimate.

2.5 Statistical Testing

Statements of comparison in this report are statistically significant at the 90% confidence level ($\alpha = 0.10$) using a two-sided test. “Statistically significant” means that the difference is not likely due to random chance alone.

3. Limitations

In Section 3, we provide statements about the data that are worth noting when reading this document.

3.1 Sampling Error

Since the CCM estimates were based on a sample survey, they were subject to sampling error. As a result, the sample estimates differed from what would have been obtained if all housing units had been included in the survey. The standard errors provided with the data reflect mainly variations due to sampling and they do not in general account for nonsampling errors, which can be the principal source of error for very small geographic areas. Thus, the standard errors and root mean squared errors provide an indication of the minimum amount of possible error present in the estimates. See the forthcoming methodology paper for more detail on variance estimation.

3.2 Nonsampling Error

Nonsampling error is a catch-all term for errors that are not a function of selecting a sample. They include errors that may occur during data collection and processing survey data. For example, while an interview is in progress, the respondent may have made an error in answering a question, or the interviewer may make an error in asking a question or recording the answer. Sometimes interviews failed to take place or households provided incomplete data. Other examples of nonsampling error for the 2010 CCM included modeling error, synthetic error, and classification error. Unlike sampling error, nonsampling error is difficult to quantify.

3.3 A.C.E. 2000 Data Availability

The 2000 A.C.E. tabulated and published estimates for only a limited set of housing unit characteristics, and only those are available for inclusion in this report. Comparisons between census years sometimes involve using slightly inconsistent definitions of a category. Race

categorization of householders and creating a separate structure category for trailers use somewhat inconsistent definitions in their comparisons. Such inconsistencies are noted under the relevant tables. See Kilmer (2006) for 2000 housing unit estimation procedures.

4. Discussion of Results

The tables in Section 4.1 present national net undercount estimates for the housing unit coverage of the 2010 Census with comparisons to Census 2000. The 2000 A.C.E. produced housing unit coverage estimates only for the characteristics used for post-stratification. As this is the most detailed set of comparisons possible between the years, we compare the 2010 CCM and 2000 A.C.E. using those classifications. See Kilmer (2006) for 2000 A.C.E. housing unit estimation results. Estimates of Owner-Occupied and Renter-Occupied units were not generated as part of the original 2000 A.C.E. estimates but were produced afterward. More information on the additional results can be found in Viehdorfer (2012).

The table in Section 4.2 contains net coverage results for other housing unit characteristics. Sections 4.3 includes detailed coverage estimates for states. Sections 4.4 and 4.5 include net coverage results for counties and places with over 100,000 population. Section 4.6 provides net coverage estimates for census operational areas.

4.1 National Results

Table 1 shows the estimated net undercounts for several characteristics of housing units, compared to the 2000 A.C.E. estimate for the same or most similar classification, where appropriate. The national undercount estimate of 0.60% was caused almost entirely by Vacant units, which were undercounted by 4.80%. The undercount of Occupied units (0.03%) was not statistically different from zero. Units in the Midwest (0.74%), South (0.83%) and West (0.94%) regions were significantly undercounted as were Single-Unit structures (1.00%) and Trailers (1.96%). Most of the MSA/Mailout groups presented showed undercounts: Medium MSA (0.51%), Small/non-MSA (1.10%), and non-Mailout enumeration areas (1.86%). The only characteristic with an overcount was Small Multi-Unit (2-9 units) structures at 1.82%.

The national undercount was nearly identical to the 2000 estimate of 0.61%. In addition, the breakdown by occupancy status was not statistically different between the two decades. Among characteristics presented in the table with decade comparisons, there were significant changes for Owner-Occupied units from a 0.54% to a 0.20% undercount, and for Small Multi-Unit structures, where the net overcount (negative undercount) rose to 1.82% from 0.08%.

Table 1. Net Coverage Estimates for Major Groups of Housing Units: 2010 and 2000

Characteristic	2010					2000			
	Census (×1000)	Net Undercount (×1000)	Standard Error (×1000)	Percent Net Undercount (%)	Standard Error (%)	Net Undercount (×1000)	Standard Error (×1000)	Percent Net Undercount (%)	Standard Error (%)
U.S.	131,676	790*	266	0.60*	0.20	709*	118	0.61*	0.16
Occupied Units	116,699	36	160	0.03	0.14	345*	136	0.33*	0.13
Owner	75,975	154*	91	0.20*	0.12	376*	94	0.54*	0.13
Renter	40,725	-118	125	-0.29	0.31	-30	76	-0.08	0.21
Vacant Units	14,977	755*	174	4.80*	1.06	363*	109	3.37*	0.98
Census Regions									
Northeast	23,648	-117	112	-0.50	0.48	n/a	n/a	n/a	n/a
Midwest	29,484	218	129	0.74*	0.43	n/a	n/a	n/a	n/a
South	49,981	418*	179	0.83*	0.35	n/a	n/a	n/a	n/a
West	28,564	271*	109	0.94*	0.37	n/a	n/a	n/a	n/a
Type of structure									
Single unit	88,952	898*	126	1.00*	0.14	731*	135	0.86*	0.16
Small multi-unit	14,919	-266*	113	-1.82*	0.79	-11	91	-0.08	0.66
Large multi-unit	19,780	-2	157	-0.01	0.79	-12	89	-0.07	0.50
Trailer	8,026	160*	76	1.96*	0.91	†	†	†	†
Mailout TEA									
Large MSA	42,666	-7	116	-0.02	0.27	78*	94	0.24	0.29
Medium MSA	47,143	241*	123	0.51*	0.26	113	84	0.32	0.23
Small/non- MSA	30,118	334*	175	1.10*	0.57	168*	82	0.69*	0.33
Non-Mailout TEA	11,749	223*	85	1.86*	0.70	350*	120	1.47*	0.50

A positive estimate denotes a net undercount whereas a negative estimate denotes a net overcount.

"n/a" means "Not Available."

† Trailers were not tabulated separately in 2000 A.C.E., but included in other structure types.

The 2010 census count excludes Remote Alaska.

*Estimate is significantly different from zero.

4.2 Net Coverage comparisons for Housing Units by Householder race and ethnicity

Table 2 presents comparisons of occupied housing units classified by the race and ethnicity of the householder. Although the national undercount of occupied units in 2010 was not significantly different from zero, a few groups show a significant deviation. American Indian and Alaskan Native alone-or-in-combination On Reservation was the only group whose housing units showed an undercount (3.38%). Overcounts were reported for housing units headed by Blacks (0.50%), Asians (0.49%), persons of Some Other Race (0.67%), and Hispanics (0.57 percent).

Table 2. Net Coverage Estimates by Race Alone or In Combination and Hispanic Origin for Occupied units

Characteristic	Census (×1000)	Net Undercount (×1000)	Standard Error (×1000)	Percent Net Undercount (%)	Standard Error (%)
U.S.: Occupied Units	116,699	36	160	0.03	0.14
Householder Race ¹ Alone or In Combination					
White	91,510	159	132	0.17	0.14
Non-Hispanic White Alone	82,328	201	133	0.24	0.16
Black	14,722	-74*	36	-0.50*	0.25
Asian	5,223	-25*	14	-0.49*	0.27
American Indian and Alaskan Native	1,726	3	6	0.17	0.33
On Reservation	166	6*	3	3.38*	1.56
American Indian Areas ² off Reservation	172	0	1	-0.02	0.70
Balance of Country	1,388	-3	3	-0.21	0.24
Native Hawaiian or Pacific Islander	320	-1	1	-0.40	0.31
Some Other Race	5,595	-37*	13	-0.67*	0.24
Hispanic Origin					
Hispanic or Latino	13,461	-76*	33	-0.57*	0.25
Not Hispanic or Latino	103,238	112	153	0.11	0.15

A positive estimate denotes a net undercount whereas a negative estimate denotes a net overcount.

"n/a" means "Not Available."

The 2010 census count excludes Remote Alaska.

¹A householder can be included in more than one classification.

²American Indian Areas are lands considered (either wholly or partially) on an American Indian reservation/trust land, Oklahoma Tribal Statistical Area, Tribal Designated Statistical Area, or Alaska Native Village Statistical Area.

*Estimate is significantly different from zero.

4.3 Net Coverage comparisons for Housing Units by State

Table 3 presents comparisons of housing unit net coverage estimates by state. No states showed a statistically significant overcount or undercount. Similarly, no states had a statistically significant overcount or undercount among occupied units.

Table 3. Census Coverage Measurement Net Coverage Estimates for States

State (State FIPS Code)	All Housing Units					Occupied				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
U.S.	131,676.2	790.4	265.7	0.60	0.20	116,699.3	35.5	159.8	0.03	0.14
Alabama (01)	2,171.9	26.2	37.6	1.19	1.69	1,883.8	6.5	22.3	0.34	1.17
Alaska (02)	278.4	5.1	8.1	1.79	2.80	241.1	1.6	4.7	0.67	1.90
Arizona (04)	2,844.5	41.7	46.9	1.44	1.60	2,381.0	9.9	26.3	0.42	1.10
Arkansas (05)	1,316.3	13.3	25.5	1.00	1.90	1,147.1	3.3	15.1	0.29	1.31
California (06)	13,680.1	90.4	151.9	0.66	1.10	12,577.5	27.2	95.0	0.22	0.75
Colorado (08)	2,212.9	19.3	37.5	0.86	1.67	1,972.9	5.3	22.5	0.27	1.13
Connecticut (09)	1,487.9	-5.7	27.6	-0.38	1.87	1,371.1	-6.8	17.1	-0.50	1.26
Delaware (10)	405.9	4.3	10.5	1.06	2.54	342.3	0.9	5.9	0.25	1.73
District of Columbia (11)	296.7	-0.2	8.2	-0.07	2.77	266.7	-1.6	5.0	-0.60	1.89
Florida (12)	8,989.6	90.6	113.4	1.00	1.24	7,420.8	2.5	63.0	0.03	0.85
Georgia (13)	4,088.8	37.4	60.7	0.91	1.46	3,585.6	9.4	36.2	0.26	1.00
Hawaii (15)	519.5	0.3	13.0	0.05	2.49	455.3	-3.8	7.7	-0.84	1.71
Idaho (16)	667.8	12.0	15.3	1.77	2.21	579.4	4.2	8.9	0.73	1.51
Illinois (17)	5,296.7	12.4	73.7	0.23	1.38	4,837.0	-4.7	46.3	-0.10	0.96
Indiana (18)	2,795.5	21.1	45.2	0.75	1.59	2,502.2	9.0	27.5	0.36	1.09
Iowa (19)	1,336.4	8.1	25.8	0.61	1.91	1,221.6	3.4	16.0	0.28	1.30
Kansas (20)	1,233.2	7.1	24.2	0.58	1.94	1,112.1	2.5	14.8	0.23	1.32
Kentucky (21)	1,927.2	12.1	34.0	0.62	1.74	1,720.0	3.0	20.6	0.17	1.19
Louisiana (22)	1,965.0	16.5	34.4	0.83	1.72	1,728.4	4.2	20.6	0.24	1.18
Maine (23)	721.8	1.5	17.7	0.21	2.45	557.2	-4.6	9.4	-0.83	1.72
Maryland (24)	2,378.8	15.3	39.7	0.64	1.65	2,156.4	3.2	24.3	0.15	1.12
Massachusetts (25)	2,808.3	-4.7	45.3	-0.17	1.62	2,547.1	-14.9	27.8	-0.59	1.11
Michigan (26)	4,532.2	43.1	65.6	0.94	1.42	3,872.5	12.6	38.1	0.33	0.98
Minnesota (27)	2,347.2	21.5	40.2	0.91	1.68	2,087.2	4.9	24.2	0.23	1.15
Mississippi (28)	1,274.7	7.1	25.1	0.55	1.95	1,115.8	-0.9	15.0	-0.08	1.35
Missouri (29)	2,712.7	21.6	45.6	0.79	1.66	2,375.6	5.7	27.1	0.24	1.14
Montana (30)	482.8	9.3	12.1	1.89	2.42	409.6	3.3	6.9	0.81	1.65
Nebraska (31)	796.8	5.4	17.4	0.67	2.15	721.1	2.1	10.6	0.29	1.46
Nevada (32)	1,173.8	13.8	23.5	1.16	1.96	1,006.3	3.5	13.7	0.35	1.35
New Hampshire (33)	614.8	4.2	14.6	0.67	2.34	519.0	-1.5	8.3	-0.29	1.62
New Jersey (34)	3,553.6	-16.5	55.2	-0.47	1.57	3,214.4	-24.0	34.0	-0.75	1.07
New Mexico (35)	901.4	12.1	19.7	1.33	2.13	791.4	3.4	11.7	0.43	1.47
New York (36)	8,108.1	-91.2	106.1	-1.14	1.34	7,317.8	-103.0	66.5	-1.43	0.93
North Carolina (37)	4,327.5	45.4	64.0	1.04	1.45	3,745.2	8.8	37.6	0.23	1.00
North Dakota (38)	317.5	4.3	8.9	1.32	2.72	281.2	1.7	5.4	0.60	1.88
Ohio (39)	5,127.5	30.9	71.9	0.60	1.38	4,603.4	12.2	44.0	0.27	0.95
Oklahoma (40)	1,664.4	8.5	30.4	0.51	1.81	1,460.5	-0.4	18.1	-0.03	1.24
Oregon (41)	1,675.6	21.1	30.4	1.24	1.77	1,518.9	9.7	18.6	0.63	1.21
Pennsylvania (42)	5,567.3	-3.0	77.9	-0.05	1.40	5,018.9	-12.4	47.8	-0.25	0.96
Rhode Island (44)	463.4	-1.5	11.4	-0.33	2.49	413.6	-2.2	6.8	-0.54	1.67
South Carolina (45)	2,137.7	25.2	37.2	1.16	1.70	1,801.2	3.1	21.2	0.17	1.17
South Dakota (46)	363.4	5.2	9.8	1.41	2.62	322.3	2.4	5.9	0.73	1.80
Tennessee (47)	2,812.1	19.0	45.0	0.67	1.58	2,493.6	5.4	27.1	0.22	1.08
Texas (48)	9,977.4	63.3	118.3	0.63	1.17	8,922.9	8.0	72.5	0.09	0.81
Utah (49)	979.7	12.3	20.2	1.24	2.01	877.7	4.9	12.1	0.56	1.37
Vermont (50)	322.5	0.4	9.2	0.13	2.84	256.4	-1.9	4.9	-0.75	1.95
Virginia (51)	3,364.9	25.5	51.4	0.75	1.51	3,056.1	8.4	31.6	0.27	1.03
Washington (53)	2,885.7	29.4	46.0	1.01	1.56	2,620.1	12.0	28.3	0.46	1.07
West Virginia (54)	881.9	8.5	19.6	0.95	2.18	763.8	0.1	11.6	0.01	1.52
Wisconsin (55)	2,624.4	37.6	44.6	1.41	1.65	2,279.8	8.7	26.1	0.38	1.14
Wyoming (56)	261.9	3.9	7.6	1.47	2.82	226.9	1.2	4.4	0.54	1.91

A positive estimate denotes a net undercount and a negative estimate denotes a net overcount.

Estimates are rounded to the nearest hundreds for display.

The 2010 census count excludes Remote Alaska.

4.4 Net Coverage comparisons for Housing Units by County

Attachment 1 presents housing unit net coverage estimates for the 578 counties with at least a 100,000 (person) population count in the 2010 Census. The line for the balance of a state represents a total for all the counties not presented individually in the table. There were eight counties with a significant undercount, and four counties with a significant overcount. Among occupied units, there were seven counties with a significant overcount and no counties with a significant undercount.

4.5 Net Coverage comparisons for Housing Units by Place

Attachment 2 presents housing unit net coverage estimates for the 282 places with at least a 100,000 (person) population count in the 2010 census. The line for the balance of a state represents a total for all the places not presented individually in the table. Only one place, New York City, NY, had an overcount, and no places had a statistically significant undercount. Among occupied units, no places had a significant undercount, but six places had significant overcounts.

4.6 Net Coverage comparisons for Census Operational Areas

Table 4 shows the net coverage estimates for housing units in areas where different census operations were performed. No operational area showed a statistically significant overcount. All operational areas consisting of at least half the nation (or just under half) followed the national pattern of showing an undercount.

Bilingual Mailing Area

For Census 2010, the Census Bureau used the bilingual (English/Spanish) form for housing units in select collection blocks. The goal of this effort was to reach the maximum number of housing units that could require Spanish language assistance to complete their 2010 Census questionnaire (Bentley 2008; Rothhaas 2011). Areas where Bilingual Mailing was not performed followed the national pattern with a 0.74% undercount. Areas that received the Bilingual Mailing treatment, showed an overcount of 0.84%, which was not significantly different from zero, but was different from the national 0.60% undercount rate.

Replacement Mailing Area

As part of the 2010 Decennial Census, a replacement mailing package was delivered to some households in Mailout/Mailback areas of the country. Some collection blocks with low response in Census 2000 received a blanketed distribution, so all housing units received a replacement mailing. Some collection blocks with midrange response in Census 2010 had a targeted distribution where only nonresponding housing units received a replacement mailing. The remaining collection blocks with high response in Census 2000 did not receive a replacement questionnaire (Letourneau 2010). Areas where Replacement Mailing was *not* performed (about 60% of the country) showed an undercount of 0.91%. Blanketed and Targeted mailing areas

were not statistically different from either zero or the national average undercount rate, at 0.32% undercount and 0.03% overcount, respectively.

Type of Enumeration Area

TEA is how the Census Bureau obtained the addresses and conducted the census in the area. For Census 2010, there were six TEAs not including Remote Alaska, which was out of scope for the CCM program. The CCM analyzed the six TEAs in three groups. The first was “Mailout/Mailback,” which included the Mailout/Mailback TEA and the Military Mailout/Mailback TEA. These areas primarily had questionnaires delivered to houses by mail. After responding to the questionnaire, households were asked to return the enumeration form by mail. Mailout areas represent about 90% of all households, and reflected national averages with 0.47% undercount rates.

The second TEA group was the “Update/Leave” group, which included the Update/Leave TEA and the Urban Update/Leave TEA. These collection blocks involved a census worker delivering the questionnaire instead of mailing. While delivering, the census worker could update the address list and leave forms for housing units not originally on the list. Households were asked to return the enumeration form by mail. These areas were not statistically different from either the national average or from zero, with a 0.92% undercount rate.

The third group included Remote Update/Enumerate and Urban Update/Enumerate TEAs. In these collection blocks, the census enumerator conducted the enumeration of the household. Similar to Update/Leave, the enumerator could update the address list and conduct an enumeration of housing units that were not originally included on the list. This group was very different from the rest of the country, reflecting an 8.44% undercount rate.

Address Characteristic Type

The Address Characteristic Type (ACT) code is a classification of a block to the predominant type of address in the block (city-style, rural route, P.O. Box, etc.) and whether or not the address is carried in the United States Postal Service Delivery Sequence File (DSF). The ACT classification was done prior to the start of 2010 Census operations; consequently, it does not reflect updates from Address Canvassing or later operations. The ACT code has 28 values which we summarize to eight values based for the most part on the type of address, either city-style or noncity-style.

The most common type of Address Characteristic, City-Style Addresses with full DSF coverage, reflected very closely the national average with a 0.54% undercount. Several other areas also showed undercounts:

City-Style Addresses, no DSF coverage	2.20%
City-style and noncity-style, all DSF or city-style is 85% or higher	1.16%
City-style and noncity-style, all DSF or city-style is 84.99% or lower	1.60%
No Addresses Found (as of the time assignments were made)	1.25%

Table 4. Net Coverage for Census Operational Areas

Census Operational Areas	Census (×1000)	Net Undercount (×1000)	Standard Error (×1000)	Percent Net Undercount (%)	Standard Error (%)
U.S.	131,676	790*	266	0.60*	0.20
Bilingual Mailing Area					
Bilingual Mailing Areas	12,193	-101	63	-0.84	0.52
Balance of U.S.	119,483	891*	276	0.74*	0.23
Replacement Mailing Area					
Blanketed Mailing Areas	25,332	82	109	0.32	0.43
Targeted Mailing Areas	28,753	-8	131	-0.03	0.46
Balance of U.S.	77,592	716*	184	0.91*	0.23
Type of Enumeration Area					
Mailout/Mailback	119,927	567*	233	0.47*	0.19
Update/Leave	10,375	96	71	0.92	0.67
Update/Enumerate	1,374	127*	44	8.44*	2.72
Address Characteristic Type					
City-style, all DSF	65,615	359*	112	0.54*	0.17
City-style, some DSF	38,934	71	77	0.18	0.20
City-style, no DSF	769	17*	4	2.20*	0.53
City-style and noncity-style, all DSF or where city-style is 85% or higher	16,161	190*	53	1.16*	0.32
City-style and noncity-style, no DSF or where city-style is 84.99% or lower	7,075	115*	51	1.60*	0.70
Assorted noncity-style	475	8	7	1.59	1.34
Business, Post Office, Rural Route, and					
Others	451	3	3	0.57	0.59
No Addresses Found	2,197	28*	9	1.25*	0.39

A positive estimate denotes a net undercount and a negative estimate denotes a net overcount.

The 2010 census count excludes Remote Alaska.

*Estimate is significantly different from zero.

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Attachment 1: Net Coverage Estimates for Counties with Population Greater than 100,000

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Alabama (01)	2,171.9	26.2	37.6	1.19	1.69	1,883.8	6.5	22.3	0.34	1.17
Baldwin County (003)	104.1	3.6	2.5	3.31	2.23	73.2	0.2	1.1	0.23	1.51
Calhoun County (015)	53.3	1.2	1.2	2.21	2.20	47.3	0.6	0.8	1.24	1.62
Etowah County (055)	47.5	0.9	1.1	1.95	2.25	42.0	0.5	0.7	1.06	1.64
Houston County (069)	45.3	1.0	1.1	2.19	2.40	41.0	0.5	0.7	1.22	1.76
Jefferson County (073)	300.6	1.6	4.5	0.52	1.49	263.6	0.3	3.0	0.12	1.13
Lee County (081)	62.4	1.6	1.6	2.57	2.40	55.7	0.7	1.0	1.33	1.82
Madison County (089)	146.4	0.7	2.5	0.47	1.72	134.7	0.2	1.7	0.15	1.28
Mobile County (097)	178.2	1.0	3.1	0.56	1.69	158.4	0.0	2.0	0.00	1.28
Montgomery County (101)	101.6	1.9	2.1	1.81	2.02	90.0	0.8	1.4	0.87	1.48
Morgan County (103)	51.2	0.4	1.1	0.69	2.18	47.0	0.2	0.8	0.37	1.58
Shelby County (117)	81.0	0.6	1.6	0.68	2.00	74.1	0.2	1.1	0.29	1.47
Tuscaloosa County (125)	84.9	2.0	1.9	2.33	2.19	76.1	0.9	1.3	1.18	1.65
Balance of Alabama	915.5	9.7	20.2	1.05	2.16	780.7	1.4	11.6	0.18	1.48
Alaska (02)	278.4	5.1	8.1	1.79	2.80	241.1	1.6	4.7	0.67	1.90
Anchorage Municipality (020)	113.0	1.7	2.2	1.45	1.87	107.3	1.1	1.5	0.99	1.40
Balance of Alaska	165.4	3.4	9.0	2.03	5.22	133.7	0.6	4.2	0.41	3.10
Arizona (04)	2,844.5	41.7	46.9	1.44	1.60	2,381.0	9.9	26.3	0.42	1.10
Cochise County (003)	59.0	0.3	1.4	0.47	2.33	50.9	-0.1	0.8	-0.10	1.67
Coconino County (005)	63.3	2.8*	1.6	4.22*	2.37	46.7	0.8	0.8	1.69	1.70
Maricopa County (013)	1,639.3	14.2	17.4	0.86	1.04	1,411.6	2.9	11.3	0.20	0.80
Mohave County (015)	110.9	2.5	2.5	2.24	2.13	82.5	0.5	1.3	0.60	1.51
Navajo County (017)	56.9	2.9*	1.6	4.83*	2.60	35.7	0.7	0.7	1.83	1.92
Pima County (019)	440.9	3.8	6.1	0.85	1.36	388.7	1.2	4.0	0.31	1.04
Pinal County (021)	159.2	3.2	3.3	1.98	1.98	125.6	0.8	1.8	0.60	1.39
Yavapai County (025)	110.4	3.9*	2.4	3.45*	2.02	90.9	1.6	1.4	1.72	1.48
Yuma County (027)	87.9	4.3*	2.5	4.64*	2.62	64.8	0.9	1.1	1.35	1.69
Balance of Arizona	116.6	3.7	7.7	3.11	6.24	83.7	0.7	3.2	0.85	3.81
Arkansas (05)	1,316.3	13.3	25.5	1.00	1.90	1,147.1	3.3	15.1	0.29	1.31
Benton County (007)	93.1	1.8	1.9	1.89	1.97	82.1	0.7	1.2	0.90	1.46
Faulkner County (045)	46.6	0.3	1.1	0.58	2.25	42.6	0.1	0.7	0.14	1.64
Pulaski County (119)	175.6	0.8	3.0	0.47	1.67	158.8	0.2	2.0	0.13	1.24
Saline County (125)	44.8	0.4	1.0	0.88	2.24	41.4	0.2	0.7	0.57	1.62
Sebastian County (131)	54.7	0.7	1.2	1.26	2.20	49.6	0.3	0.8	0.68	1.61
Washington County (143)	87.8	1.7	1.9	1.92	2.04	76.4	0.6	1.2	0.84	1.51
Balance of Arkansas	813.8	7.6	18.9	0.93	2.28	696.2	1.1	10.7	0.15	1.53
California (06)	13,680.1	90.4	151.9	0.66	1.10	12,577.5	27.2	95.0	0.22	0.75
Alameda County (001)	582.5	2.3	7.6	0.39	1.29	545.1	0.6	5.4	0.12	0.98
Butte County (007)	95.8	1.9	1.9	1.89	1.92	87.6	1.0	1.3	1.14	1.42
Contra Costa County (013)	400.3	2.6	5.6	0.64	1.38	375.4	1.4	4.0	0.37	1.05
El Dorado County (017)	88.2	1.0	1.8	1.13	1.94	70.2	0.2	1.0	0.31	1.46
Fresno County (019)	315.5	1.9	4.6	0.60	1.45	289.4	0.4	3.2	0.15	1.10
Humboldt County (023)	61.6	0.3	1.4	0.56	2.19	56.0	0.0	0.9	0.00	1.60
Imperial County (025)	56.1	1.2	1.4	2.14	2.43	49.1	0.4	0.9	0.85	1.88
Kern County (029)	284.4	3.5	4.5	1.22	1.53	254.6	1.3	3.0	0.52	1.16
Kings County (031)	43.9	0.7	1.0	1.50	2.29	41.2	0.5	0.7	1.10	1.67
Los Angeles County (037)	3,445.1	3.0	30.7	0.09	0.89	3,241.2	-4.6	22.7	-0.14	0.70
Madera County (039)	49.1	0.9	1.1	1.74	2.24	43.3	0.3	0.7	0.67	1.62
Marin County (041)	111.2	0.8	2.1	0.70	1.85	103.2	0.3	1.4	0.33	1.36
Merced County (047)	83.7	1.6	1.8	1.86	2.04	75.6	0.9	1.2	1.18	1.51
Monterey County (053)	139.0	1.7	2.5	1.19	1.79	125.9	0.6	1.7	0.50	1.34

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Napa County (055)	54.8	0.5	1.2	0.94	2.16	48.9	0.2	0.8	0.46	1.57
Orange County (059)	1,048.9	5.7	11.9	0.54	1.12	992.8	2.8	8.6	0.28	0.87
Placer County (061)	152.6	2.0	2.7	1.28	1.70	132.6	0.7	1.7	0.55	1.28
Riverside County (065)	800.7	10.1	10.7	1.25	1.30	686.3	2.9	6.7	0.41	0.97
Sacramento County (067)	555.9	3.1	7.2	0.55	1.27	513.9	1.3	5.0	0.25	0.97
San Bernardino County (071)	699.6	10.2	9.1	1.43	1.26	611.6	2.6	5.9	0.42	0.95
San Diego County (073)	1,164.8	4.8	12.8	0.41	1.09	1,086.9	1.3	9.2	0.12	0.85
San Francisco County (075)	376.9	1.5	5.5	0.39	1.44	345.8	-0.1	3.8	-0.02	1.10
San Joaquin County (077)	233.8	1.5	3.7	0.65	1.54	215.0	0.7	2.5	0.32	1.15
San Luis Obispo County (079)	117.3	3.0	2.3	2.51	1.88	102.0	1.4	1.5	1.33	1.39
San Mateo County (081)	271.0	1.3	4.1	0.49	1.50	257.8	0.7	2.9	0.26	1.13
Santa Barbara County (083)	152.8	2.0	2.8	1.32	1.76	142.1	1.1	1.9	0.76	1.32
Santa Clara County (085)	631.9	3.1	8.0	0.49	1.26	604.2	1.7	5.9	0.28	0.96
Santa Cruz County (087)	104.5	0.9	2.0	0.88	1.89	94.4	0.4	1.3	0.41	1.39
Shasta County (089)	77.3	1.9	1.6	2.42	2.01	70.3	1.1	1.1	1.53	1.48
Solano County (095)	152.7	1.2	2.6	0.76	1.71	141.8	0.6	1.8	0.44	1.26
Sonoma County (097)	204.6	1.8	3.4	0.88	1.61	185.8	0.8	2.3	0.45	1.20
Stanislaus County (099)	179.5	1.4	3.0	0.75	1.64	165.2	0.7	2.0	0.45	1.22
Tulare County (107)	141.7	2.5	2.7	1.73	1.81	130.4	1.2	1.8	0.91	1.36
Ventura County (111)	281.7	1.7	4.3	0.61	1.49	266.9	1.0	3.0	0.37	1.12
Yolo County (113)	75.1	0.3	1.5	0.46	2.00	70.9	0.2	1.0	0.23	1.46
Balance of California	445.5	6.4	14.4	1.41	3.13	353.9	0.5	7.3	0.14	2.05
Colorado (08)	2,212.9	19.3	37.5	0.86	1.67	1,972.9	5.3	22.5	0.27	1.13
Adams County (001)	163.1	0.6	2.8	0.34	1.68	153.8	0.2	1.9	0.13	1.24
Arapahoe County (005)	238.3	0.8	3.7	0.35	1.55	224.0	0.2	2.6	0.09	1.16
Boulder County (013)	127.1	0.9	2.3	0.68	1.77	119.3	0.4	1.6	0.36	1.31
Denver County (031)	285.8	0.8	4.3	0.27	1.50	263.1	-0.1	3.0	-0.05	1.13
Douglas County (035)	106.9	0.6	2.0	0.52	1.84	102.0	0.3	1.4	0.34	1.35
El Paso County (041)	252.9	1.4	3.9	0.55	1.52	236.0	0.7	2.7	0.29	1.14
Jefferson County (059)	230.0	1.0	3.6	0.45	1.55	218.2	0.5	2.5	0.24	1.16
Larimer County (069)	132.7	2.4	2.4	1.75	1.78	120.3	1.3	1.6	1.06	1.33
Mesa County (077)	62.6	0.9	1.4	1.36	2.10	58.1	0.5	0.9	0.80	1.54
Pueblo County (101)	69.5	1.1	1.5	1.55	2.04	63.0	0.6	1.0	0.88	1.49
Weld County (123)	96.3	0.5	1.8	0.57	1.89	89.3	0.3	1.2	0.30	1.38
Balance of Colorado	447.7	8.3	14.7	1.83	3.16	325.8	0.4	6.9	0.14	2.12
Connecticut (09)	1,487.9	-5.7	27.6	-0.38	1.87	1,371.1	-6.8	17.1	-0.50	1.26
Fairfield County (001)	361.2	-2.0	5.2	-0.55	1.46	335.5	-2.3	3.7	-0.68	1.11
Hartford County (003)	374.2	-2.0	5.3	-0.55	1.44	350.9	-1.9	3.8	-0.55	1.08
Litchfield County (005)	87.6	0.0	1.7	-0.05	1.99	76.6	-0.2	1.1	-0.21	1.46
Middlesex County (007)	74.8	-0.1	1.5	-0.20	2.05	67.2	-0.2	1.0	-0.27	1.50
New Haven County (009)	362.0	-1.9	5.2	-0.54	1.46	334.5	-2.0	3.6	-0.60	1.10
New London County (011)	121.0	0.7	2.5	0.57	2.04	107.1	0.1	1.6	0.05	1.48
Tolland County (013)	58.0	-0.1	1.2	-0.11	2.16	54.5	-0.1	0.8	-0.20	1.56
Windham County (015)	49.1	-0.2	1.1	-0.38	2.26	44.8	-0.2	0.7	-0.41	1.63
Balance of Connecticut	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00
Delaware (10)	405.9	4.3	10.5	1.06	2.54	342.3	0.9	5.9	0.25	1.73
Kent County (001)	65.3	1.5	1.5	2.27	2.13	60.3	0.9	1.0	1.52	1.58
New Castle County (003)	217.5	1.4	3.5	0.62	1.59	202.7	0.7	2.4	0.32	1.19
Sussex County (005)	123.0	1.5	3.1	1.18	2.43	79.4	-0.7	1.3	-0.92	1.69
Balance of Delaware	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00
District of Columbia (11)	296.7	-0.2	8.2	-0.07	2.77	266.7	-1.6	5.0	-0.60	1.89
Florida (12)	8,989.6	90.6	113.4	1.00	1.24	7,420.8	2.5	63.0	0.03	0.85

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Alachua County (001)	112.8	1.9	2.3	1.66	1.99	100.5	0.6	1.5	0.64	1.50
Bay County (005)	99.7	4.9*	2.7	4.69*	2.46	68.4	0.9	1.1	1.36	1.52
Brevard County (009)	269.9	2.4	4.2	0.88	1.53	229.7	0.6	2.7	0.25	1.15
Broward County (011)	810.4	5.5	10.6	0.67	1.29	686.0	-1.5	6.7	-0.21	0.98
Charlotte County (015)	100.6	1.5	2.0	1.45	1.90	73.4	0.2	1.1	0.27	1.45
Citrus County (017)	78.0	0.5	1.7	0.58	2.18	63.3	0.0	1.0	0.08	1.58
Clay County (019)	75.5	0.7	1.5	0.95	2.00	68.8	0.4	1.0	0.53	1.47
Collier County (021)	197.3	6.1	4.5	3.00	2.15	133.2	0.3	1.8	0.21	1.38
Duval County (031)	388.5	2.0	5.5	0.51	1.41	342.5	0.2	3.7	0.05	1.07
Escambia County (033)	136.7	3.3	2.7	2.36	1.88	116.2	1.0	1.6	0.86	1.36
Hernando County (053)	84.5	1.2	1.7	1.38	1.95	71.7	0.5	1.1	0.66	1.46
Hillsborough County (057)	536.1	2.2	7.2	0.40	1.32	474.0	-0.3	4.8	-0.06	1.02
Indian River County (061)	76.3	0.7	1.6	0.86	2.03	60.2	0.0	0.9	0.03	1.52
Lake County (069)	145.0	1.6	2.6	1.12	1.75	121.3	0.5	1.6	0.41	1.32
Lee County (071)	371.1	5.5	5.8	1.45	1.51	259.8	0.2	3.0	0.10	1.14
Leon County (073)	124.1	2.5	2.6	2.00	1.97	110.9	0.9	1.6	0.82	1.46
Manatee County (081)	172.7	1.7	3.0	0.98	1.73	135.7	0.2	1.8	0.13	1.29
Marion County (083)	164.1	4.6	3.1	2.70	1.80	137.7	1.8	1.9	1.28	1.33
Martin County (085)	78.1	0.7	1.6	0.91	2.02	63.9	0.0	1.0	0.07	1.50
Miami-Dade County (086)	989.4	-2.1	12.5	-0.21	1.27	867.4	-7.5	8.6	-0.88	1.01
Okaloosa County (091)	92.4	3.1	2.2	3.26	2.23	72.4	0.7	1.1	0.94	1.48
Orange County (095)	487.8	1.1	6.7	0.23	1.36	421.8	-0.9	4.4	-0.21	1.04
Osceola County (097)	128.2	1.4	2.5	1.11	1.88	90.6	-0.1	1.3	-0.15	1.41
Palm Beach County (099)	664.6	5.1	8.9	0.75	1.32	544.2	-0.6	5.4	-0.12	0.99
Pasco County (101)	228.9	2.8	3.7	1.22	1.58	189.6	0.9	2.3	0.50	1.20
Pinellas County (103)	503.6	4.3	7.2	0.84	1.40	415.9	-0.1	4.3	-0.03	1.04
Polk County (105)	281.2	4.1	4.5	1.42	1.54	227.5	1.1	2.7	0.47	1.16
St. Johns County (109)	89.8	0.9	1.8	0.96	1.94	75.3	0.2	1.1	0.30	1.44
St. Lucie County (111)	137.0	1.7	2.5	1.26	1.78	108.5	0.2	1.5	0.22	1.34
Santa Rosa County (113)	64.8	1.4	1.4	2.16	2.12	56.9	0.6	0.9	1.05	1.55
Sarasota County (115)	228.4	2.6	3.8	1.13	1.62	175.7	0.4	2.1	0.21	1.21
Seminole County (117)	181.3	1.0	3.0	0.54	1.66	164.7	0.3	2.0	0.15	1.24
Volusia County (127)	254.2	3.0	4.1	1.15	1.56	208.2	0.7	2.5	0.32	1.17
Balance of Florida	636.5	10.9	17.4	1.68	2.65	484.6	0.1	8.8	0.01	1.81
Georgia (13)	4,088.8	37.4	60.7	0.91	1.46	3,585.6	9.4	36.2	0.26	1.00
Bartow County (015)	39.8	0.3	0.9	0.86	2.33	35.8	0.1	0.6	0.42	1.68
Bibb County (021)	69.7	1.2	1.5	1.65	2.10	60.3	0.4	0.9	0.64	1.54
Carroll County (045)	44.6	0.5	1.0	1.03	2.25	39.2	0.2	0.6	0.49	1.64
Chatham County (051)	119.3	2.5	2.5	2.02	1.98	103.0	0.8	1.5	0.80	1.46
Cherokee County (057)	82.4	0.9	1.6	1.05	1.96	75.9	0.5	1.1	0.64	1.44
Clarke County (059)	51.1	0.8	1.2	1.54	2.30	45.4	0.3	0.8	0.64	1.70
Clayton County (063)	104.7	1.3	2.0	1.20	1.90	90.6	0.5	1.3	0.52	1.43
Cobb County (067)	286.5	2.3	4.3	0.80	1.48	260.1	0.9	2.9	0.36	1.12
Columbia County (073)	48.6	0.4	1.1	0.77	2.31	44.9	0.2	0.8	0.36	1.68
Coweta County (077)	50.2	0.4	1.1	0.71	2.24	45.7	0.1	0.7	0.28	1.63
DeKalb County (089)	305.0	3.1	4.8	1.01	1.53	271.8	1.3	3.2	0.46	1.17
Douglas County (097)	51.7	0.8	1.2	1.46	2.20	46.6	0.4	0.8	0.89	1.61
Fayette County (113)	40.8	0.5	1.0	1.17	2.28	38.2	0.3	0.6	0.82	1.64
Forsyth County (117)	64.1	0.6	1.3	0.88	2.07	59.4	0.3	0.9	0.54	1.50
Fulton County (121)	437.1	3.0	6.4	0.67	1.44	376.4	-0.3	4.2	-0.09	1.11
Gwinnett County (135)	291.5	2.1	4.4	0.72	1.47	268.5	1.1	3.0	0.40	1.11
Hall County (139)	68.8	0.4	1.4	0.63	2.06	60.7	0.1	0.9	0.22	1.51
Henry County (151)	76.5	1.0	1.6	1.29	2.03	70.3	0.6	1.1	0.82	1.49
Houston County (153)	58.3	1.1	1.3	1.92	2.16	53.1	0.6	0.9	1.06	1.58
Lowndes County (185)	43.9	0.8	1.0	1.78	2.31	39.7	0.4	0.7	0.96	1.69
Muscogee County (215)	82.7	1.5	1.8	1.77	2.10	74.1	0.6	1.2	0.80	1.56

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Paulding County (223)	52.1	0.9	1.2	1.78	2.26	48.1	0.6	0.8	1.21	1.67
Richmond County (245)	86.3	0.6	1.7	0.71	1.95	76.9	0.2	1.1	0.31	1.44
Whitfield County (313)	39.9	0.8	1.1	2.05	2.56	35.2	0.3	0.7	0.94	1.90
Balance of Georgia	1,493.2	9.7	26.1	0.65	1.73	1,265.7	-1.1	15.4	-0.09	1.22
Hawaii (15)	519.5	0.3	13.0	0.05	2.49	455.3	-3.8	7.7	-0.84	1.71
Hawaii County (001)	82.3	0.5	2.1	0.60	2.50	67.1	-0.6	1.2	-0.85	1.87
Honolulu County (003)	336.9	-0.5	5.1	-0.15	1.52	311.0	-1.9	3.6	-0.63	1.17
Maui County (009)	70.4	0.1	1.9	0.19	2.65	53.9	-1.0	1.0	-1.87	1.95
Balance of Hawaii	29.9	0.1	4.0	0.45	13.21	23.3	-0.3	1.6	-1.34	6.83
Idaho (16)	667.8	12.0	15.3	1.77	2.21	579.4	4.2	8.9	0.73	1.51
Ada County (001)	159.5	1.5	2.7	0.95	1.68	148.4	0.9	1.9	0.62	1.25
Bonneville County (019)	39.7	0.9	1.0	2.20	2.32	36.6	0.6	0.6	1.52	1.68
Canyon County (027)	69.4	0.5	1.4	0.78	2.03	63.6	0.3	1.0	0.47	1.48
Kootenai County (055)	63.2	1.9	1.4	2.90	2.09	54.2	0.8	0.9	1.39	1.55
Balance of Idaho	336.0	7.1	12.5	2.08	3.56	276.5	1.7	6.3	0.60	2.24
Illinois (17)	5,296.7	12.4	73.7	0.23	1.38	4,837.0	-4.7	46.3	-0.10	0.96
Champaign County (019)	87.6	1.0	1.9	1.13	2.12	80.7	0.4	1.3	0.51	1.60
Cook County (031)	2,180.4	-9.5	22.8	-0.44	1.05	1,966.4	-14.4	16.3	-0.74	0.84
DeKalb County (037)	41.1	0.2	1.0	0.52	2.31	38.5	0.1	0.6	0.27	1.67
DuPage County (043)	356.2	1.4	5.1	0.40	1.41	337.1	0.5	3.6	0.16	1.07
Kane County (089)	182.0	-0.3	3.1	-0.18	1.69	170.5	-0.6	2.1	-0.36	1.26
Kankakee County (091)	45.2	0.3	1.0	0.76	2.24	41.5	0.2	0.7	0.42	1.62
Kendall County (093)	40.3	0.3	0.9	0.77	2.30	38.0	0.2	0.6	0.51	1.65
Lake County (097)	260.3	1.0	4.0	0.38	1.51	241.7	0.4	2.7	0.16	1.13
LaSalle County (099)	50.0	0.0	1.2	0.08	2.31	45.3	0.0	0.8	-0.10	1.67
McHenry County (111)	116.0	0.8	2.1	0.66	1.80	109.2	0.5	1.5	0.42	1.32
McLean County (113)	69.7	1.0	1.5	1.45	2.15	65.1	0.6	1.1	0.93	1.60
Macon County (115)	50.5	0.8	1.2	1.53	2.23	45.9	0.4	0.8	0.88	1.62
Madison County (119)	117.1	0.6	2.1	0.52	1.81	108.1	0.3	1.5	0.30	1.34
Peoria County (143)	83.0	1.2	1.7	1.41	2.02	75.8	0.6	1.1	0.77	1.49
Rock Island County (161)	65.8	0.8	1.4	1.22	2.13	61.3	0.5	1.0	0.76	1.56
St. Clair County (163)	116.2	0.8	2.2	0.68	1.84	105.0	0.3	1.4	0.33	1.36
Sangamon County (167)	89.9	1.4	1.8	1.52	1.97	83.0	0.8	1.2	0.97	1.45
Tazewell County (179)	57.5	0.8	1.3	1.36	2.14	54.1	0.5	0.9	0.91	1.56
Will County (197)	237.5	1.2	3.7	0.50	1.53	225.3	0.7	2.6	0.31	1.14
Winnebago County (201)	126.0	1.9	2.4	1.49	1.86	115.5	1.1	1.6	0.92	1.38
Balance of Illinois	924.4	6.7	20.2	0.72	2.16	829.0	2.2	12.0	0.26	1.44
Indiana (18)	2,795.5	21.1	45.2	0.75	1.59	2,502.2	9.0	27.5	0.36	1.09
Allen County (003)	152.2	0.9	2.6	0.58	1.71	137.9	0.4	1.8	0.32	1.27
Clark County (019)	47.8	0.4	1.1	0.90	2.25	44.2	0.2	0.7	0.56	1.64
Delaware County (035)	52.4	0.9	1.2	1.69	2.22	46.5	0.4	0.8	0.92	1.62
Elkhart County (039)	77.8	0.4	1.6	0.55	2.01	70.2	0.2	1.0	0.28	1.47
Hamilton County (057)	106.8	0.9	2.0	0.80	1.85	99.8	0.5	1.4	0.52	1.36
Hendricks County (063)	55.5	0.4	1.2	0.64	2.17	52.4	0.2	0.8	0.40	1.57
Johnson County (081)	56.6	0.3	1.2	0.58	2.14	52.2	0.2	0.8	0.32	1.56
Lake County (089)	208.8	1.0	3.4	0.48	1.60	188.2	0.4	2.3	0.19	1.21
LaPorte County (091)	48.4	0.4	1.1	0.77	2.23	42.3	0.1	0.7	0.26	1.63
Madison County (095)	59.1	0.4	1.3	0.67	2.12	51.9	0.2	0.8	0.33	1.56
Marion County (097)	417.9	1.8	5.9	0.43	1.40	366.2	0.4	3.9	0.11	1.07
Monroe County (105)	59.1	0.9	1.4	1.55	2.26	54.9	0.5	0.9	0.90	1.70
Porter County (127)	66.2	0.5	1.4	0.75	2.05	62.0	0.3	0.9	0.48	1.49
St. Joseph County (141)	114.8	0.6	2.1	0.51	1.84	103.1	0.2	1.4	0.20	1.36
Tippecanoe County (157)	71.1	1.1	1.6	1.50	2.20	65.5	0.6	1.1	0.85	1.64

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Vanderburgh County (163)	83.0	1.5	1.7	1.72	2.03	74.5	0.8	1.1	1.02	1.49
Vigo County (167)	46.0	0.7	1.1	1.50	2.28	41.4	0.4	0.7	0.85	1.66
Balance of Indiana	1,072.2	8.0	21.6	0.74	1.98	949.0	3.0	12.8	0.32	1.34
Iowa (19)	1,336.4	8.1	25.8	0.61	1.91	1,221.6	3.4	16.0	0.28	1.30
Black Hawk County (013)	55.9	0.7	1.3	1.24	2.19	52.5	0.4	0.9	0.82	1.60
Johnson County (103)	56.0	0.7	1.3	1.23	2.23	52.7	0.4	0.9	0.78	1.65
Linn County (113)	92.3	1.3	1.9	1.38	1.99	86.1	0.7	1.3	0.85	1.47
Polk County (153)	182.3	0.5	3.0	0.26	1.66	170.2	0.1	2.1	0.08	1.24
Scott County (163)	71.8	0.9	1.5	1.24	2.08	66.8	0.5	1.0	0.77	1.53
Woodbury County (193)	41.5	0.3	1.0	0.78	2.33	39.1	0.2	0.7	0.50	1.68
Balance of Iowa	836.7	3.7	19.1	0.44	2.26	754.2	1.0	11.2	0.13	1.48
Kansas (20)	1,233.2	7.1	24.2	0.58	1.94	1,112.1	2.5	14.8	0.23	1.32
Douglas County (045)	46.7	0.6	1.1	1.30	2.33	43.6	0.3	0.8	0.74	1.72
Johnson County (091)	226.6	1.0	3.6	0.42	1.57	212.9	0.5	2.5	0.22	1.17
Sedgwick County (173)	211.6	0.9	3.4	0.42	1.60	193.5	0.3	2.3	0.17	1.20
Shawnee County (177)	79.1	1.2	1.7	1.55	2.05	72.6	0.7	1.1	0.91	1.52
Wyandotte County (209)	66.7	0.2	1.4	0.30	2.08	58.4	0.0	0.9	0.05	1.53
Balance of Kansas	602.4	3.2	16.3	0.53	2.69	531.1	0.7	9.2	0.13	1.72
Kentucky (21)	1,927.2	12.1	34.0	0.62	1.74	1,720.0	3.0	20.6	0.17	1.19
Boone County (015)	46.2	0.2	1.0	0.51	2.24	43.2	0.1	0.7	0.27	1.62
Fayette County (067)	135.2	0.5	2.4	0.37	1.79	123.0	0.1	1.6	0.04	1.32
Hardin County (093)	43.3	0.2	1.0	0.43	2.29	39.9	0.1	0.7	0.19	1.65
Jefferson County (111)	337.6	1.1	4.9	0.32	1.44	309.2	0.4	3.4	0.11	1.09
Kenton County (117)	69.0	0.2	1.4	0.35	2.06	62.8	0.1	0.9	0.17	1.50
Warren County (227)	47.2	0.8	1.1	1.75	2.30	43.7	0.5	0.8	1.05	1.69
Balance of Kentucky	1,248.8	9.0	23.5	0.72	1.85	1,098.2	1.8	14.2	0.17	1.28
Louisiana (22)	1,965.0	16.5	34.4	0.83	1.72	1,728.4	4.2	20.6	0.24	1.18
Ascension Parish (005)	40.8	0.3	1.0	0.70	2.31	37.8	0.1	0.6	0.39	1.67
Bossier Parish (015)	49.4	1.1	1.2	2.09	2.28	45.2	0.6	0.8	1.25	1.66
Caddo Parish (017)	112.0	1.6	2.2	1.44	1.91	102.1	0.8	1.5	0.78	1.42
Calcasieu Parish (019)	82.1	1.5	1.7	1.78	1.99	74.0	0.8	1.1	1.02	1.47
East Baton Rouge Parish (033)	187.4	0.6	3.1	0.30	1.65	172.1	0.0	2.1	-0.03	1.23
Jefferson Parish (051)	189.1	0.8	3.1	0.40	1.65	169.6	0.1	2.1	0.05	1.23
Lafayette Parish (055)	93.7	0.3	1.8	0.28	1.93	87.0	0.0	1.2	0.01	1.42
Livingston Parish (063)	50.2	0.4	1.2	0.74	2.26	46.0	0.1	0.8	0.28	1.67
Orleans Parish (071)	189.9	-0.3	3.6	-0.18	1.92	142.2	-1.4	2.0	-1.01	1.41
Ouachita Parish (073)	64.5	1.2	1.4	1.88	2.12	58.7	0.7	0.9	1.10	1.56
Rapides Parish (079)	55.7	0.9	1.3	1.66	2.17	50.4	0.5	0.8	0.92	1.60
St. Tammany Parish (103)	95.4	0.7	1.8	0.77	1.89	87.5	0.4	1.2	0.40	1.39
Tangipahoa Parish (105)	50.1	-0.3	1.2	-0.58	2.43	45.1	-0.5	0.8	-1.10	1.83
Terrebonne Parish (109)	43.9	0.8	1.0	1.88	2.29	40.1	0.5	0.7	1.15	1.67
Balance of Louisiana	661.0	6.9	16.9	1.04	2.51	570.5	1.7	9.5	0.30	1.65
Maine (23)	721.8	1.5	17.7	0.21	2.45	557.2	-4.6	9.4	-0.83	1.72
Androscoggin County (001)	49.1	-0.1	1.1	-0.23	2.28	44.3	-0.1	0.7	-0.31	1.65
Cumberland County (005)	138.7	1.0	2.6	0.70	1.84	117.3	-0.3	1.6	-0.26	1.38
Kennebec County (011)	61.0	-0.9	1.6	-1.55	2.65	51.1	-1.0	1.0	-1.91	2.00
Penobscot County (019)	73.9	0.5	1.7	0.63	2.31	63.0	0.0	1.1	0.01	1.70
York County (031)	105.8	0.6	2.2	0.53	2.03	81.0	-0.3	1.2	-0.32	1.51
Balance of Maine	293.5	0.6	12.5	0.19	4.23	200.5	-3.0	5.6	-1.50	2.89
Maryland (24)	2,378.8	15.3	39.7	0.64	1.65	2,156.4	3.2	24.3	0.15	1.12
Anne Arundel County (003)	212.6	1.1	3.4	0.52	1.60	199.4	0.5	2.4	0.27	1.19

State and County (FIPS Code)	All Housing Units					Occupied Units				
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Baltimore County (005)	335.6	1.3	4.9	0.40	1.44	316.7	0.5	3.4	0.16	1.08
Carroll County (013)	62.4	0.4	1.3	0.57	2.08	59.8	0.2	0.9	0.41	1.50
Cecil County (015)	41.1	0.4	1.0	0.97	2.29	36.9	0.2	0.6	0.48	1.67
Charles County (017)	55.0	0.4	1.2	0.68	2.16	51.2	0.2	0.8	0.38	1.57
Frederick County (021)	90.1	0.6	1.8	0.64	1.92	84.8	0.3	1.2	0.37	1.40
Harford County (025)	95.6	0.5	1.8	0.55	1.90	90.2	0.3	1.3	0.34	1.39
Howard County (027)	109.3	0.5	2.0	0.49	1.84	104.7	0.3	1.4	0.29	1.35
Montgomery County (031)	375.9	0.8	5.3	0.22	1.41	357.1	-0.1	3.8	-0.02	1.06
Prince George's County (033)	328.2	1.0	4.8	0.31	1.47	304.0	-0.1	3.4	-0.05	1.12
St. Mary's County (037)	41.3	0.4	1.0	0.98	2.30	37.6	0.2	0.6	0.55	1.67
Washington County (043)	60.8	1.0	1.3	1.58	2.14	55.7	0.5	0.9	0.97	1.56
Baltimore city (510)	296.7	0.7	4.9	0.23	1.64	249.9	-0.6	3.0	-0.22	1.21
Balance of Maryland	274.3	6.1	11.4	2.18	3.99	208.4	0.6	5.3	0.29	2.52
Massachusetts (25)	2,808.3	-4.7	45.3	-0.17	1.62	2,547.1	-14.9	27.8	-0.59	1.11
Barnstable County (001)	160.3	6.1	3.8	3.65	2.19	95.8	0.4	1.4	0.42	1.46
Berkshire County (003)	68.5	0.6	1.6	0.91	2.25	56.1	0.0	0.9	0.08	1.64
Bristol County (005)	230.5	-0.8	3.7	-0.36	1.60	213.0	-0.8	2.5	-0.37	1.19
Essex County (009)	306.8	-1.9	4.6	-0.62	1.52	286.0	-2.0	3.2	-0.70	1.14
Hampden County (013)	192.2	-1.0	3.2	-0.50	1.67	179.9	-0.9	2.2	-0.50	1.24
Hampshire County (015)	62.6	-0.1	1.3	-0.13	2.13	58.7	-0.1	0.9	-0.23	1.54
Middlesex County (017)	612.0	-2.6	7.8	-0.42	1.28	580.7	-3.1	5.7	-0.53	0.98
Norfolk County (021)	270.4	-0.2	4.1	-0.06	1.52	257.9	-0.5	2.9	-0.19	1.14
Plymouth County (023)	200.2	0.0	3.3	0.01	1.65	181.1	-0.4	2.2	-0.24	1.23
Suffolk County (025)	315.5	-6.5	5.0	-2.12	1.65	292.8	-6.3*	3.6	-2.19*	1.28
Worcester County (027)	326.8	-1.2	4.8	-0.37	1.48	303.1	-1.3	3.3	-0.42	1.11
Balance of Massachusetts	62.6	2.8	5.8	4.33	8.43	42.1	0.0	2.1	0.12	5.09
Michigan (26)	4,532.2	43.1	65.6	0.94	1.42	3,872.5	12.6	38.1	0.33	0.98
Allegan County (005)	49.4	0.5	1.1	0.94	2.21	42.0	0.2	0.7	0.37	1.62
Bay County (017)	48.2	0.7	1.1	1.53	2.24	44.6	0.4	0.7	0.96	1.62
Berrien County (021)	76.9	1.6	1.7	2.02	2.08	63.1	0.5	1.0	0.83	1.53
Calhoun County (025)	61.0	1.1	1.4	1.83	2.16	54.0	0.5	0.9	0.95	1.58
Eaton County (045)	47.1	0.3	1.1	0.61	2.24	43.5	0.1	0.7	0.30	1.62
Genesee County (049)	192.2	1.7	3.2	0.86	1.61	169.2	0.7	2.1	0.42	1.21
Ingham County (065)	121.3	0.6	2.2	0.45	1.82	111.2	0.2	1.5	0.17	1.35
Jackson County (075)	69.5	1.4	1.5	1.99	2.14	60.8	0.6	1.0	1.01	1.56
Kalamazoo County (077)	110.0	1.7	2.2	1.48	1.94	100.6	0.9	1.5	0.85	1.44
Kent County (081)	246.9	1.2	3.9	0.48	1.55	227.2	0.6	2.7	0.25	1.16
Livingston County (093)	72.8	0.6	1.5	0.79	2.00	67.4	0.3	1.0	0.47	1.46
Macomb County (099)	356.6	2.7	5.1	0.74	1.40	331.7	1.5	3.6	0.44	1.06
Monroe County (115)	63.0	0.6	1.3	1.01	2.07	58.2	0.4	0.9	0.64	1.51
Muskegon County (121)	73.6	0.5	1.5	0.64	2.02	65.6	0.2	1.0	0.28	1.48
Oakland County (125)	527.3	3.6	6.9	0.68	1.29	483.7	1.7	4.8	0.35	0.99
Ottawa County (139)	102.5	0.7	1.9	0.68	1.87	93.8	0.3	1.3	0.35	1.38
Saginaw County (145)	86.8	1.3	1.8	1.43	1.98	79.0	0.6	1.2	0.82	1.46
St. Clair County (147)	71.8	0.7	1.5	0.96	2.01	63.8	0.3	1.0	0.49	1.48
Washtenaw County (161)	147.6	0.9	2.6	0.61	1.73	137.2	0.4	1.8	0.33	1.29
Wayne County (163)	821.7	5.7	10.0	0.69	1.20	702.7	1.3	6.5	0.18	0.93
Balance of Michigan	1,186.1	15.2	24.4	1.26	2.01	873.2	0.9	12.4	0.10	1.42
Minnesota (27)	2,347.2	21.5	40.2	0.91	1.68	2,087.2	4.9	24.2	0.23	1.15
Anoka County (003)	126.7	0.6	2.3	0.49	1.78	121.2	0.4	1.6	0.32	1.31
Dakota County (037)	159.6	0.7	2.7	0.44	1.70	152.1	0.4	1.9	0.24	1.26
Hennepin County (053)	509.5	1.4	6.9	0.28	1.35	475.9	0.1	4.9	0.01	1.03
Olmsted County (109)	60.5	1.0	1.3	1.56	2.16	57.1	0.6	0.9	1.08	1.59
Ramsey County (123)	217.2	0.4	3.5	0.19	1.62	202.7	0.0	2.5	-0.02	1.22

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
St. Louis County (137)	103.1	2.7	2.2	2.51	2.00	84.8	0.8	1.3	0.88	1.48
Scott County (139)	47.1	0.3	1.1	0.70	2.22	45.1	0.2	0.7	0.51	1.60
Stearns County (145)	62.0	0.3	1.3	0.48	2.13	56.2	0.1	0.9	0.11	1.57
Washington County (163)	92.4	0.4	1.8	0.48	1.91	87.9	0.3	1.2	0.29	1.39
Wright County (171)	49.0	0.4	1.1	0.75	2.24	44.5	0.2	0.7	0.47	1.63
Balance of Minnesota	920.2	13.3	20.6	1.42	2.18	759.8	2.0	11.4	0.26	1.49
Mississippi (28)	1,274.7	7.1	25.1	0.55	1.95	1,115.8	-0.9	15.0	-0.08	1.35
DeSoto County (033)	61.6	0.5	1.3	0.77	2.09	57.7	0.3	0.9	0.51	1.52
Harrison County (047)	85.2	1.7	1.8	2.01	2.07	71.5	0.5	1.1	0.69	1.55
Hinds County (049)	103.4	0.5	2.0	0.52	1.88	91.4	0.1	1.3	0.08	1.39
Jackson County (059)	60.1	1.4	1.3	2.29	2.14	52.2	0.6	0.8	1.18	1.59
Rankin County (121)	56.5	0.5	1.2	0.91	2.14	52.8	0.3	0.8	0.56	1.56
Balance of Mississippi	907.9	2.4	20.2	0.26	2.22	790.2	-2.7	11.8	-0.34	1.51
Missouri (29)	2,712.7	21.6	45.6	0.79	1.66	2,375.6	5.7	27.1	0.24	1.14
Boone County (019)	69.6	1.0	1.5	1.42	2.14	64.1	0.5	1.0	0.78	1.58
Clay County (047)	93.9	0.7	1.8	0.70	1.92	87.2	0.4	1.2	0.43	1.42
Franklin County (071)	43.4	0.4	1.0	0.97	2.28	39.2	0.2	0.7	0.54	1.66
Greene County (077)	125.4	2.1	2.5	1.62	1.89	114.2	1.1	1.7	0.92	1.42
Jackson County (095)	312.1	1.2	4.7	0.38	1.48	274.8	0.2	3.1	0.09	1.12
Jasper County (097)	50.7	0.9	1.2	1.80	2.23	45.6	0.5	0.8	1.09	1.63
Jefferson County (099)	87.6	0.9	1.7	1.00	1.94	81.7	0.6	1.2	0.68	1.42
St. Charles County (183)	141.0	0.9	2.5	0.65	1.73	134.3	0.6	1.7	0.45	1.27
St. Louis County (189)	438.0	1.8	6.0	0.41	1.35	404.8	0.8	4.2	0.19	1.03
St. Louis city (510)	176.0	-0.5	3.2	-0.31	1.85	142.1	-1.0	1.9	-0.70	1.39
Balance of Missouri	1,175.0	12.3	24.3	1.03	2.02	987.7	1.9	13.9	0.19	1.40
Montana (30)	482.8	9.3	12.1	1.89	2.42	409.6	3.3	6.9	0.81	1.65
Missoula County (063)	50.1	0.9	1.1	1.73	2.21	45.9	0.5	0.8	1.11	1.62
Yellowstone County (111)	63.9	1.1	1.4	1.62	2.07	60.7	0.7	0.9	1.20	1.51
Balance of Montana	368.8	7.4	13.1	1.96	3.42	303.0	2.1	6.6	0.68	2.16
Nebraska (31)	796.8	5.4	17.4	0.67	2.15	721.1	2.1	10.6	0.29	1.46
Douglas County (055)	219.6	1.0	3.5	0.44	1.60	202.4	0.4	2.4	0.21	1.20
Lancaster County (109)	120.9	1.7	2.4	1.35	1.90	113.4	1.0	1.6	0.89	1.43
Sarpy County (153)	61.9	0.5	1.3	0.75	2.11	58.1	0.3	0.9	0.45	1.54
Balance of Nebraska	394.4	2.3	13.3	0.58	3.34	347.2	0.4	7.1	0.11	2.05
Nevada (32)	1,173.8	13.8	23.5	1.16	1.96	1,006.3	3.5	13.7	0.35	1.35
Clark County (003)	840.3	7.9	10.7	0.93	1.25	715.4	1.1	6.9	0.16	0.96
Washoe County (031)	184.8	3.1	3.2	1.66	1.69	163.4	1.3	2.1	0.77	1.27
Balance of Nevada	148.6	2.8	8.4	1.83	5.45	127.4	1.1	4.0	0.84	3.10
New Hampshire (33)	614.8	4.2	14.6	0.67	2.34	519.0	-1.5	8.3	-0.29	1.62
Hillsborough County (011)	166.1	-0.1	2.9	-0.04	1.72	155.5	-0.3	2.0	-0.19	1.28
Merrimack County (013)	63.5	0.0	1.4	0.06	2.15	57.1	-0.2	0.9	-0.28	1.58
Rockingham County (015)	126.7	0.4	2.3	0.30	1.82	115.0	0.0	1.5	0.01	1.35
Strafford County (017)	51.7	0.1	1.2	0.16	2.26	47.1	-0.1	0.8	-0.13	1.65
Balance of New Hampshire	206.8	3.7	10.2	1.78	4.74	144.3	-1.0	4.5	-0.71	3.13
New Jersey (34)	3,553.6	-16.5	55.2	-0.47	1.57	3,214.4	-24.0	34.0	-0.75	1.07
Atlantic County (001)	126.6	1.4	2.9	1.08	2.22	102.8	-0.1	1.6	-0.05	1.57
Bergen County (003)	352.4	-2.5	5.1	-0.72	1.46	335.7	-2.7	3.6	-0.80	1.10
Burlington County (005)	175.6	0.3	2.9	0.19	1.67	166.3	0.1	2.1	0.04	1.23
Camden County (007)	204.9	0.1	3.3	0.06	1.63	191.0	-0.2	2.3	-0.13	1.22
Cumberland County (011)	55.8	0.0	1.2	0.04	2.17	51.9	-0.1	0.8	-0.12	1.57

State and County (FIPS Code)	All Housing Units					Occupied Units				
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Essex County (013)	313.0	-6.0	5.1	-1.96	1.68	283.7	-5.8*	3.5	-2.08*	1.29
Gloucester County (015)	109.8	0.3	2.0	0.26	1.85	104.3	0.1	1.4	0.12	1.36
Hudson County (017)	270.3	-8.6*	4.9	-3.29*	1.92	246.4	-8.3*	3.5	-3.48*	1.53
Hunterdon County (019)	49.5	0.1	1.1	0.29	2.22	47.2	0.1	0.8	0.16	1.60
Mercer County (021)	143.2	-0.1	2.5	-0.09	1.78	133.2	-0.3	1.7	-0.22	1.31
Middlesex County (023)	294.8	-0.7	4.4	-0.24	1.51	281.2	-1.0	3.2	-0.36	1.14
Monmouth County (025)	258.4	0.2	4.1	0.09	1.57	234.0	-0.3	2.8	-0.15	1.18
Morris County (027)	189.8	0.2	3.1	0.12	1.64	180.5	-0.1	2.2	-0.04	1.22
Ocean County (029)	278.1	1.1	4.5	0.40	1.62	221.1	-0.3	2.7	-0.14	1.20
Passaic County (031)	176.0	-3.2	3.1	-1.83	1.83	166.8	-3.0	2.2	-1.82	1.38
Somerset County (035)	123.1	0.1	2.2	0.05	1.81	117.8	-0.1	1.6	-0.05	1.32
Sussex County (037)	62.1	0.2	1.3	0.33	2.12	54.8	0.0	0.8	0.02	1.54
Union County (039)	199.5	-2.5	3.3	-1.28	1.70	188.1	-2.3	2.3	-1.25	1.27
Warren County (041)	44.9	0.1	1.0	0.26	2.27	41.5	0.0	0.7	0.11	1.64
Balance of New Jersey	125.7	3.0	8.2	2.30	6.21	66.1	0.1	2.8	0.12	4.17
New Mexico (35)	901.4	12.1	19.7	1.33	2.13	791.4	3.4	11.7	0.43	1.47
Bernalillo County (001)	284.2	1.2	4.3	0.40	1.49	266.0	0.4	3.0	0.14	1.12
Dona Ana County (013)	81.5	0.8	1.8	0.96	2.16	75.5	0.3	1.2	0.40	1.63
Sandoval County (043)	52.3	1.0	1.2	1.92	2.17	47.6	0.6	0.8	1.22	1.60
San Juan County (045)	49.3	1.9	1.3	3.73	2.53	44.4	1.1	0.9	2.31	1.88
Santa Fe County (049)	71.3	1.4	1.6	1.92	2.14	62.0	0.5	1.0	0.76	1.61
Balance of New Mexico	362.8	5.9	13.3	1.59	3.54	295.9	0.6	6.8	0.20	2.28
New York (36)	8,108.1	-91.2	106.1	-1.14	1.34	7,317.8	-103.0	66.5	-1.43	0.93
Albany County (001)	137.7	-1.3	2.5	-0.95	1.84	126.3	-1.1	1.7	-0.87	1.36
Bronx County (005)	511.9	-15.4*	7.8	-3.10*	1.62	483.4	-14.8*	6.0	-3.15*	1.32
Broome County (007)	90.6	0.6	2.0	0.64	2.13	82.2	0.2	1.3	0.22	1.55
Chautauqua County (013)	66.9	-1.3	1.6	-1.96	2.52	54.2	-0.8	0.9	-1.52	1.74
Dutchess County (027)	118.6	-0.5	2.2	-0.43	1.86	108.0	-0.5	1.5	-0.48	1.37
Erie County (029)	420.0	-3.0	5.9	-0.73	1.44	383.2	-2.3	4.1	-0.61	1.08
Jefferson County (045)	58.0	0.3	1.6	0.59	2.74	43.5	-0.8	0.9	-1.93	2.06
Kings County (047)	1,000.3	-28.9*	13.9	-2.97*	1.47	916.9	-27.2*	10.2	-3.05*	1.18
Monroe County (055)	320.6	-1.0	4.7	-0.30	1.48	300.4	-0.8	3.3	-0.28	1.11
Nassau County (059)	468.3	-1.3	6.3	-0.27	1.35	448.5	-1.6	4.5	-0.36	1.02
New York County (061)	847.1	-12.6	11.6	-1.51	1.41	763.8	-14.5*	8.5	-1.93*	1.16
Niagara County (063)	99.1	-0.3	1.9	-0.27	1.93	90.6	-0.2	1.3	-0.25	1.41
Oneida County (065)	104.2	0.6	2.2	0.58	2.11	93.0	0.1	1.4	0.09	1.54
Onondaga County (067)	202.4	-0.5	3.3	-0.26	1.64	187.7	-0.6	2.3	-0.30	1.22
Ontario County (069)	48.2	-0.1	1.1	-0.16	2.29	43.0	-0.1	0.7	-0.31	1.66
Orange County (071)	137.0	-0.1	2.5	-0.10	1.80	125.9	-0.3	1.7	-0.24	1.33
Oswego County (075)	53.6	0.1	1.2	0.13	2.22	46.4	0.0	0.7	-0.05	1.61
Queens County (081)	835.1	-22.0*	11.1	-2.70*	1.40	780.1	-21.0*	8.3	-2.77*	1.12
Rensselaer County (083)	71.5	-0.6	1.5	-0.79	2.12	64.7	-0.5	1.0	-0.74	1.54
Richmond County (085)	176.7	-3.3	3.1	-1.91	1.81	165.5	-3.0	2.2	-1.84	1.35
Rockland County (087)	104.1	-0.5	2.0	-0.50	1.92	99.2	-0.6	1.4	-0.58	1.41
St. Lawrence County (089)	52.1	0.5	1.3	0.86	2.50	41.6	-0.3	0.7	-0.76	1.78
Saratoga County (091)	98.7	0.3	1.9	0.35	1.95	88.3	-0.2	1.3	-0.20	1.42
Schenectady County (093)	68.2	-0.3	1.4	-0.40	2.10	62.9	-0.3	1.0	-0.40	1.52
Suffolk County (103)	570.0	5.0	8.0	0.87	1.38	499.9	-0.9	5.1	-0.19	1.02
Tompkins County (109)	41.7	0.3	1.0	0.71	2.47	39.0	0.1	0.7	0.34	1.81
Ulster County (111)	83.6	0.0	1.7	0.03	2.08	71.0	-0.3	1.1	-0.47	1.54
Westchester County (119)	370.8	-5.0	5.5	-1.37	1.51	347.2	-5.1	3.9	-1.48	1.16
Balance of New York	951.2	-1.1	21.9	-0.11	2.31	761.3	-5.6	11.7	-0.74	1.56
North Carolina (37)	4,327.5	45.4	64.0	1.04	1.45	3,745.2	8.8	37.6	0.23	1.00
Alamance County (001)	66.6	0.2	1.4	0.37	2.09	60.0	0.0	0.9	0.06	1.53
Brunswick County (019)	77.5	4.9*	2.3	5.92*	2.67	46.3	0.7	0.8	1.54	1.71

State and County (FIPS Code)	All Housing Units					Occupied Units				
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Buncombe County (021)	113.4	2.5	2.3	2.14	1.92	100.4	1.2	1.5	1.16	1.43
Cabarrus County (025)	71.9	0.5	1.5	0.76	2.01	65.7	0.3	1.0	0.44	1.47
Catawba County (035)	67.9	1.4	1.5	2.09	2.08	60.9	0.7	1.0	1.16	1.53
Craven County (049)	45.0	-0.1	1.1	-0.13	2.40	40.3	-0.1	0.7	-0.35	1.74
Cumberland County (051)	135.5	2.4	2.6	1.73	1.83	122.4	1.2	1.7	0.96	1.36
Davidson County (057)	72.7	0.6	1.5	0.87	2.01	64.5	0.3	1.0	0.45	1.48
Durham County (063)	120.2	0.3	2.2	0.24	1.82	109.3	-0.1	1.5	-0.06	1.35
Forsyth County (067)	156.9	0.7	2.7	0.44	1.70	141.2	0.2	1.8	0.12	1.27
Gaston County (071)	88.7	0.5	1.7	0.55	1.94	79.9	0.2	1.1	0.23	1.43
Guilford County (081)	218.0	0.6	3.5	0.26	1.60	196.6	-0.1	2.4	-0.05	1.20
Harnett County (085)	46.7	0.4	1.1	0.77	2.25	41.6	0.1	0.7	0.34	1.64
Henderson County (089)	54.7	1.4	1.3	2.53	2.34	45.4	0.5	0.8	1.06	1.67
Iredell County (097)	69.0	0.6	1.4	0.79	2.04	61.2	0.2	0.9	0.36	1.50
Johnston County (101)	67.7	0.5	1.4	0.66	2.06	61.9	0.2	0.9	0.37	1.50
Mecklenburg County (119)	398.5	1.1	5.6	0.28	1.39	362.2	0.0	3.8	-0.01	1.06
New Hanover County (129)	101.4	2.3	2.2	2.21	2.08	86.0	0.6	1.3	0.72	1.51
Onslow County (133)	68.2	2.3	1.5	3.29	2.08	60.1	1.2	1.0	1.93	1.58
Orange County (135)	55.6	0.1	1.2	0.20	2.18	51.5	0.0	0.8	-0.04	1.58
Pitt County (147)	75.0	1.3	1.9	1.70	2.40	67.6	0.4	1.3	0.66	1.85
Randolph County (151)	61.0	0.4	1.3	0.63	2.11	55.4	0.2	0.9	0.34	1.53
Robeson County (155)	52.8	2.1	1.6	3.78	2.79	48.0	1.3	1.1	2.62	2.24
Rowan County (159)	60.2	0.4	1.3	0.63	2.12	53.1	0.1	0.8	0.23	1.55
Union County (179)	72.9	0.4	1.5	0.53	2.02	67.9	0.2	1.0	0.29	1.47
Wake County (183)	371.8	2.2	5.3	0.58	1.40	345.6	1.0	3.7	0.28	1.06
Wayne County (191)	52.9	1.0	1.3	1.85	2.35	47.8	0.5	0.8	1.01	1.72
Balance of North Carolina	1,484.8	14.4	27.2	0.96	1.80	1,202.3	-2.2	15.5	-0.18	1.29
North Dakota (38)	317.5	4.3	8.9	1.32	2.72	281.2	1.7	5.4	0.60	1.88
Cass County (017)	67.9	1.0	1.6	1.48	2.28	63.9	0.6	1.1	0.91	1.76
Balance of North Dakota	249.6	3.2	10.8	1.28	4.21	217.3	1.1	5.5	0.51	2.52
Ohio (39)	5,127.5	30.9	71.9	0.60	1.38	4,603.4	12.2	44.0	0.27	0.95
Allen County (003)	45.0	0.8	1.1	1.74	2.28	40.6	0.4	0.7	1.02	1.66
Ashtabula County (007)	46.1	0.4	1.1	0.79	2.25	39.4	0.1	0.7	0.34	1.65
Butler County (017)	148.3	0.8	2.6	0.56	1.73	136.0	0.4	1.8	0.31	1.28
Clark County (023)	61.4	0.4	1.3	0.70	2.10	55.2	0.2	0.9	0.38	1.53
Clermont County (025)	80.7	0.6	1.6	0.73	1.99	74.8	0.3	1.1	0.41	1.46
Columbiana County (029)	47.1	0.4	1.1	0.79	2.22	42.7	0.2	0.7	0.45	1.61
Cuyahoga County (035)	621.8	1.4	8.1	0.23	1.30	545.1	-0.3	5.4	-0.05	1.00
Delaware County (041)	66.4	0.3	1.4	0.50	2.06	62.8	0.2	0.9	0.31	1.49
Fairfield County (045)	58.7	0.3	1.3	0.56	2.12	54.3	0.2	0.8	0.33	1.53
Franklin County (049)	527.2	2.7	7.0	0.51	1.31	477.2	1.2	4.8	0.24	1.00
Greene County (057)	68.2	0.3	1.4	0.50	2.05	62.8	0.2	0.9	0.25	1.50
Hamilton County (061)	377.4	0.9	5.5	0.23	1.45	333.9	-0.1	3.7	-0.04	1.10
Lake County (085)	101.2	0.5	1.9	0.54	1.88	94.2	0.3	1.3	0.27	1.38
Licking County (089)	69.3	0.6	1.4	0.92	2.04	64.0	0.4	1.0	0.60	1.49
Lorain County (093)	127.0	0.7	2.3	0.53	1.78	116.3	0.3	1.5	0.25	1.32
Lucas County (095)	202.6	0.9	3.3	0.46	1.62	180.3	0.3	2.2	0.17	1.22
Mahoning County (099)	111.8	0.7	2.1	0.61	1.84	98.7	0.3	1.4	0.25	1.37
Medina County (103)	69.2	0.6	1.4	0.82	2.05	65.1	0.4	1.0	0.55	1.49
Miami County (109)	44.3	0.3	1.0	0.71	2.25	40.9	0.2	0.7	0.45	1.63
Montgomery County (113)	254.8	1.5	3.9	0.60	1.53	223.9	0.6	2.6	0.29	1.16
Portage County (133)	67.5	0.4	1.4	0.53	2.06	62.2	0.2	0.9	0.29	1.50
Richland County (139)	54.6	0.9	1.2	1.70	2.20	48.9	0.5	0.8	0.98	1.60
Stark County (151)	165.2	2.7	2.9	1.63	1.73	151.1	1.6	2.0	1.04	1.29
Summit County (153)	245.1	1.2	3.8	0.50	1.54	222.8	0.5	2.6	0.25	1.16
Trumbull County (155)	96.2	0.7	1.8	0.70	1.89	86.0	0.3	1.2	0.35	1.40

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Warren County (165)	80.8	0.5	1.6	0.61	1.97	76.4	0.3	1.1	0.42	1.43
Wayne County (169)	45.8	0.0	1.1	0.08	2.32	42.6	0.0	0.7	-0.01	1.67
Wood County (173)	53.4	0.3	1.2	0.62	2.18	49.0	0.2	0.8	0.32	1.59
Balance of Ohio	1,190.6	8.8	22.9	0.73	1.90	1,056.1	3.0	13.7	0.29	1.29
Oklahoma (40)	1,664.4	8.5	30.4	0.51	1.81	1,460.5	-0.4	12.1	-0.03	0.83
Canadian County (017)	45.8	0.5	1.0	1.15	2.23	42.4	0.3	0.7	0.75	1.62
Cleveland County (027)	104.8	0.6	2.0	0.61	1.86	98.3	0.4	1.4	0.38	1.37
Comanche County (031)	50.7	1.0	1.2	1.93	2.25	45.0	0.5	0.8	1.01	1.66
Oklahoma County (109)	319.8	1.2	4.7	0.37	1.46	287.6	0.4	3.2	0.13	1.10
Tulsa County (143)	268.4	1.0	4.1	0.37	1.52	241.7	0.2	2.8	0.10	1.14
Balance of Oklahoma	874.8	4.1	19.8	0.47	2.24	745.4	-2.1	11.3	-0.29	1.52
Oregon (41)	1,675.6	21.1	30.4	1.24	1.77	1,518.9	9.7	18.6	0.63	1.21
Clackamas County (005)	156.9	1.2	2.7	0.76	1.68	145.8	0.6	1.8	0.44	1.25
Deschutes County (017)	80.1	3.2*	1.8	3.86*	2.08	64.1	1.3	1.0	2.01	1.55
Douglas County (019)	48.9	0.3	1.1	0.61	2.31	44.6	0.1	0.8	0.18	1.69
Jackson County (029)	90.9	1.9	1.8	2.04	1.94	83.1	1.1	1.2	1.30	1.43
Lane County (039)	156.1	2.9	2.8	1.79	1.73	146.0	1.7	1.9	1.17	1.30
Linn County (043)	48.8	1.0	1.1	2.03	2.20	45.2	0.6	0.7	1.37	1.60
Marion County (047)	120.9	2.0	2.3	1.66	1.80	113.0	1.3	1.5	1.15	1.34
Multnomah County (051)	324.8	1.7	4.7	0.51	1.44	304.5	0.8	3.3	0.25	1.09
Washington County (067)	212.5	1.2	3.4	0.56	1.58	200.9	0.6	2.4	0.31	1.18
Balance of Oregon	435.5	5.7	14.1	1.30	3.15	371.8	1.4	7.5	0.39	1.99
Pennsylvania (42)	5,567.3	-3.0	77.9	-0.05	1.40	5,018.9	-12.4	47.8	-0.25	0.96
Adams County (001)	40.8	0.0	1.0	0.03	2.35	38.0	0.0	0.6	-0.12	1.68
Allegheny County (003)	589.2	-1.0	7.7	-0.17	1.31	534.0	-1.4	5.3	-0.26	1.00
Beaver County (007)	78.2	0.1	1.6	0.12	2.01	71.4	0.0	1.0	0.03	1.46
Berks County (011)	164.8	0.1	2.8	0.06	1.71	154.4	0.0	1.9	-0.01	1.26
Blair County (013)	56.3	0.5	1.4	0.88	2.40	52.2	0.2	0.9	0.43	1.81
Bucks County (017)	246.0	0.9	3.8	0.35	1.54	234.8	0.4	2.7	0.19	1.15
Butler County (019)	78.2	0.2	1.6	0.21	2.02	72.8	0.0	1.1	0.06	1.47
Cambria County (021)	65.7	0.7	1.5	1.13	2.19	59.0	0.3	0.9	0.55	1.59
Centre County (027)	63.3	0.1	1.6	0.08	2.48	57.6	-0.1	1.0	-0.12	1.80
Chester County (029)	192.5	0.6	3.2	0.30	1.64	182.9	0.3	2.2	0.15	1.22
Cumberland County (041)	100.0	0.2	1.9	0.23	1.90	93.9	0.1	1.3	0.09	1.39
Dauphin County (043)	120.4	-0.2	2.2	-0.17	1.85	110.4	-0.3	1.5	-0.27	1.36
Delaware County (045)	222.9	0.2	3.5	0.09	1.58	208.7	-0.1	2.5	-0.05	1.18
Erie County (049)	119.1	1.0	2.3	0.84	1.94	110.4	0.5	1.6	0.48	1.42
Fayette County (051)	62.8	0.1	1.4	0.10	2.20	56.0	-0.1	0.9	-0.19	1.62
Franklin County (055)	63.2	-0.8	1.5	-1.23	2.47	58.4	-0.7	1.1	-1.25	1.85
Lackawanna County (069)	96.8	-0.3	1.9	-0.29	1.97	87.2	-0.4	1.3	-0.41	1.45
Lancaster County (071)	203.0	0.2	3.3	0.09	1.63	193.6	0.0	2.4	-0.01	1.22
Lebanon County (075)	55.6	0.1	1.2	0.10	2.20	52.3	0.0	0.8	-0.05	1.60
Lehigh County (077)	142.6	-0.4	2.5	-0.27	1.78	134.0	-0.4	1.7	-0.29	1.31
Luzerne County (079)	148.7	0.0	2.7	0.01	1.79	131.9	-0.3	1.7	-0.21	1.33
Lycoming County (081)	52.5	0.6	1.2	1.19	2.28	46.7	0.2	0.8	0.47	1.65
Mercer County (085)	51.7	0.1	1.2	0.22	2.21	46.4	0.0	0.7	0.02	1.60
Monroe County (089)	80.4	-0.2	2.0	-0.30	2.52	61.1	-1.2	1.2	-1.94	2.01
Montgomery County (091)	325.7	0.4	4.8	0.12	1.46	307.8	-0.1	3.4	-0.04	1.10
Northampton County (095)	120.4	0.1	2.2	0.06	1.82	113.6	0.0	1.5	-0.03	1.34
Philadelphia County (101)	670.2	-3.2	8.8	-0.49	1.33	599.7	-3.9	6.0	-0.65	1.01
Schuylkill County (107)	69.3	-0.6	1.6	-0.86	2.28	60.2	-0.4	1.0	-0.69	1.63
Washington County (125)	93.0	0.2	1.8	0.18	1.94	85.1	0.0	1.2	0.05	1.42
Westmoreland County (129)	168.2	0.5	2.9	0.32	1.73	153.7	0.2	2.0	0.12	1.29
York County (133)	178.7	0.2	3.0	0.10	1.67	168.4	0.0	2.1	0.02	1.24

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Balance of Pennsylvania	847.3	-3.3	21.0	-0.39	2.49	682.5	-5.5	11.3	-0.81	1.68
Rhode Island (44)	463.4	-1.5	11.4	-0.33	2.49	413.6	-2.2	6.8	-0.54	1.67
Kent County (003)	73.7	0.2	1.5	0.25	2.02	68.6	0.0	1.0	0.07	1.47
Providence County (007)	264.8	-2.4	4.2	-0.92	1.60	241.7	-2.1	2.8	-0.89	1.20
Washington County (009)	62.2	0.6	1.4	0.95	2.14	49.2	0.0	0.8	-0.03	1.59
Balance of Rhode Island	62.6	0.1	5.6	0.15	8.87	54.1	-0.1	2.5	-0.20	4.55
South Carolina (45)	2,137.7	25.2	37.2	1.16	1.70	1,801.2	3.1	21.2	0.17	1.17
Aiken County (003)	72.2	0.7	1.5	1.02	2.03	64.3	0.3	1.0	0.47	1.50
Anderson County (007)	84.8	0.7	1.7	0.78	1.96	73.8	0.3	1.1	0.34	1.45
Beaufort County (013)	93.0	0.1	2.5	0.12	2.66	64.9	-0.8	1.1	-1.22	1.68
Berkeley County (015)	73.4	0.6	1.5	0.80	2.03	65.4	0.2	1.0	0.29	1.50
Charleston County (019)	170.0	1.0	2.9	0.59	1.70	144.3	-0.1	1.9	-0.05	1.29
Dorchester County (035)	55.2	0.2	1.2	0.42	2.19	50.3	0.0	0.8	0.03	1.60
Florence County (041)	58.7	1.2	1.4	2.05	2.24	52.7	0.6	0.9	1.09	1.65
Greenville County (045)	195.5	1.0	3.2	0.49	1.63	176.5	0.2	2.2	0.13	1.22
Horry County (051)	186.0	12.1*	5.5	6.13*	2.59	112.2	1.9	1.9	1.69	1.68
Lexington County (063)	114.0	1.0	2.1	0.85	1.83	102.7	0.4	1.4	0.40	1.36
Pickens County (077)	51.2	0.4	1.1	0.77	2.20	45.2	0.1	0.7	0.32	1.61
Richland County (079)	161.7	0.6	2.8	0.38	1.70	145.2	0.0	1.8	-0.02	1.27
Spartanburg County (083)	122.6	0.7	2.2	0.53	1.80	109.2	0.2	1.5	0.18	1.34
Sumter County (085)	46.0	1.1	1.1	2.39	2.33	40.4	0.5	0.7	1.24	1.71
York County (091)	94.2	0.4	1.8	0.44	1.92	85.9	0.2	1.2	0.18	1.41
Balance of South Carolina	559.2	3.3	15.8	0.58	2.79	468.1	-0.9	8.6	-0.20	1.84
South Dakota (46)	363.4	5.2	9.8	1.41	2.62	322.3	2.4	5.9	0.73	1.80
Minnehaha County (099)	71.6	1.2	1.6	1.61	2.12	67.0	0.7	1.1	1.10	1.58
Pennington County (103)	44.9	0.9	1.1	1.90	2.45	41.3	0.5	0.8	1.25	1.83
Balance of South Dakota	246.9	3.2	10.7	1.26	4.23	214.0	1.1	5.5	0.52	2.53
Tennessee (47)	2,812.1	19.0	45.0	0.67	1.58	2,493.6	5.4	27.1	0.22	1.08
Blount County (009)	55.3	0.6	1.2	1.13	2.13	49.3	0.2	0.8	0.49	1.56
Davidson County (037)	284.0	1.0	4.3	0.36	1.50	259.5	0.1	2.9	0.04	1.13
Hamilton County (065)	151.1	0.6	2.6	0.37	1.73	136.7	0.1	1.8	0.07	1.29
Knox County (093)	194.9	0.8	3.2	0.41	1.63	177.2	0.2	2.2	0.14	1.22
Montgomery County (125)	70.1	1.4	1.5	2.02	2.11	63.7	0.8	1.0	1.22	1.55
Rutherford County (149)	103.0	0.6	1.9	0.58	1.86	96.2	0.3	1.3	0.30	1.37
Shelby County (157)	398.3	1.0	5.6	0.25	1.41	351.0	0.0	3.7	0.00	1.07
Sullivan County (163)	73.8	0.6	1.5	0.79	2.01	66.3	0.3	1.0	0.41	1.47
Sumner County (165)	66.0	0.5	1.4	0.71	2.06	61.0	0.2	0.9	0.38	1.50
Washington County (179)	57.3	0.4	1.2	0.71	2.14	51.3	0.2	0.8	0.31	1.57
Williamson County (187)	68.5	0.7	1.4	0.96	2.04	64.9	0.4	1.0	0.69	1.48
Wilson County (189)	45.6	0.5	1.0	1.05	2.24	42.6	0.3	0.7	0.71	1.62
Balance of Tennessee	1,244.4	10.3	23.3	0.82	1.84	1,073.9	2.3	13.8	0.21	1.28
Texas (48)	9,977.4	63.3	118.3	0.63	1.17	8,922.9	8.0	72.5	0.09	0.81
Bell County (027)	125.5	2.6	2.5	2.03	1.93	114.0	1.4	1.7	1.21	1.46
Bexar County (029)	662.9	1.3	8.4	0.20	1.26	608.9	-0.4	5.9	-0.06	0.97
Brazoria County (039)	118.3	1.2	2.2	1.00	1.81	106.6	0.5	1.5	0.45	1.35
Brazos County (041)	77.7	1.0	1.7	1.21	2.12	71.7	0.4	1.2	0.54	1.59
Cameron County (061)	141.9	0.7	3.1	0.51	2.17	119.6	-0.5	2.0	-0.40	1.65
Collin County (085)	301.0	2.1	4.5	0.68	1.47	283.8	1.0	3.2	0.35	1.11
Comal County (091)	47.1	0.4	1.1	0.94	2.26	41.4	0.1	0.7	0.29	1.68
Dallas County (113)	943.3	1.5	11.0	0.15	1.16	856.0	-2.0	7.6	-0.24	0.90
Denton County (121)	256.1	1.7	4.0	0.64	1.52	240.3	0.7	2.8	0.30	1.15
Ector County (135)	53.0	0.7	1.2	1.24	2.23	48.7	0.3	0.8	0.62	1.63

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Ellis County (139)	54.4	0.6	1.2	1.11	2.16	50.5	0.4	0.8	0.71	1.57
El Paso County (141)	270.3	0.2	4.2	0.08	1.57	256.6	-0.3	3.1	-0.12	1.19
Fort Bend County (157)	197.0	1.6	3.3	0.80	1.63	187.4	1.0	2.3	0.55	1.22
Galveston County (167)	132.5	1.4	2.4	1.07	1.78	109.0	0.1	1.5	0.13	1.35
Grayson County (181)	53.7	0.5	1.2	0.83	2.16	46.9	0.1	0.7	0.32	1.58
Gregg County (183)	49.5	0.7	1.1	1.33	2.26	45.8	0.3	0.8	0.71	1.66
Guadalupe County (187)	50.0	0.4	1.1	0.83	2.20	45.8	0.2	0.7	0.51	1.61
Harris County (201)	1,598.7	4.1	16.9	0.26	1.05	1,435.2	-2.6	11.6	-0.18	0.81
Hays County (209)	59.4	0.4	1.3	0.59	2.14	55.2	0.1	0.9	0.26	1.57
Hidalgo County (215)	248.3	3.1	4.5	1.22	1.76	216.5	0.9	3.1	0.42	1.42
Jefferson County (245)	104.4	1.7	2.1	1.64	1.92	93.4	0.7	1.4	0.78	1.43
Johnson County (251)	56.7	0.6	1.2	1.08	2.14	52.2	0.3	0.8	0.65	1.56
Kaufman County (257)	38.3	0.4	0.9	0.99	2.41	35.0	0.2	0.6	0.54	1.76
Lubbock County (303)	115.1	1.6	2.2	1.34	1.89	105.8	0.8	1.5	0.71	1.40
McLennan County (309)	95.1	1.4	1.9	1.49	1.94	86.9	0.8	1.3	0.86	1.44
Midland County (329)	54.4	0.6	1.2	1.03	2.25	50.8	0.3	0.8	0.50	1.65
Montgomery County (339)	177.6	1.8	3.1	1.02	1.68	162.5	0.9	2.1	0.56	1.27
Nueces County (355)	141.0	1.4	2.9	1.01	2.01	124.6	0.0	1.8	-0.02	1.47
Parker County (367)	46.6	0.6	1.1	1.21	2.24	42.1	0.3	0.7	0.71	1.63
Potter County (375)	47.3	0.6	1.1	1.34	2.28	42.9	0.3	0.7	0.69	1.67
Randall County (381)	51.6	0.9	1.2	1.78	2.22	48.0	0.5	0.8	1.11	1.62
Smith County (423)	87.3	1.6	1.8	1.83	2.01	79.1	0.8	1.2	0.99	1.49
Tarrant County (439)	714.8	3.4	8.7	0.47	1.21	657.1	1.0	6.1	0.16	0.93
Taylor County (441)	55.8	0.8	1.2	1.41	2.18	50.7	0.4	0.8	0.77	1.59
Tom Green County (451)	46.6	0.7	1.1	1.42	2.26	42.3	0.3	0.7	0.74	1.65
Travis County (453)	441.2	0.2	6.2	0.05	1.40	404.5	-1.0	4.3	-0.26	1.07
Webb County (479)	73.5	0.4	1.6	0.51	2.22	67.1	0.0	1.1	-0.04	1.68
Wichita County (485)	55.6	0.9	1.3	1.63	2.20	49.0	0.4	0.8	0.76	1.61
Williamson County (491)	162.8	0.7	2.8	0.43	1.69	152.6	0.3	1.9	0.19	1.25
Balance of Texas	1,971.1	16.9	29.8	0.85	1.48	1,636.6	-1.2	18.0	-0.07	1.10
Utah (49)	979.7	12.3	20.2	1.24	2.01	877.7	4.9	12.1	0.56	1.37
Cache County (005)	37.0	0.8	0.9	2.12	2.35	34.7	0.6	0.6	1.58	1.71
Davis County (011)	97.6	0.8	1.9	0.79	1.88	93.5	0.6	1.3	0.59	1.37
Salt Lake County (035)	364.0	2.0	5.2	0.54	1.41	342.6	1.0	3.7	0.29	1.06
Utah County (049)	148.4	1.1	2.6	0.73	1.71	140.6	0.7	1.8	0.49	1.27
Washington County (053)	57.7	1.9	1.3	3.18	2.17	46.3	0.6	0.8	1.32	1.61
Weber County (057)	86.2	0.8	1.7	0.91	1.94	78.7	0.4	1.1	0.54	1.43
Balance of Utah	188.8	5.0	9.5	2.59	4.76	141.1	1.1	4.3	0.74	2.98
Vermont (50)	322.5	0.4	9.2	0.13	2.84	256.4	-1.9	4.9	-0.75	1.95
Chittenden County (007)	65.7	0.3	1.5	0.41	2.20	61.8	0.1	1.0	0.10	1.62
Balance of Vermont	256.8	0.1	11.1	0.05	4.33	194.6	-2.0	5.2	-1.02	2.73
Virginia (51)	3,364.9	25.5	51.4	0.75	1.51	3,056.1	8.4	31.6	0.27	1.03
Arlington County (013)	105.4	0.2	2.0	0.16	1.89	98.1	-0.3	1.4	-0.26	1.41
Chesterfield County (041)	122.6	0.7	2.2	0.58	1.78	115.7	0.4	1.5	0.37	1.31
Fairfax County (059)	408.0	1.3	5.7	0.31	1.38	391.6	0.4	4.1	0.11	1.05
Henrico County (087)	132.8	0.5	2.4	0.38	1.78	124.6	0.2	1.6	0.15	1.31
Loudoun County (107)	109.4	0.5	2.0	0.47	1.84	104.6	0.3	1.4	0.28	1.34
Prince William County (153)	137.1	0.7	2.4	0.49	1.74	130.8	0.4	1.7	0.31	1.28
Spotsylvania County (177)	45.2	0.4	1.0	0.84	2.24	41.9	0.2	0.7	0.50	1.62
Stafford County (179)	44.0	0.6	1.0	1.30	2.28	41.8	0.4	0.7	0.98	1.66
Alexandria city (510)	72.4	0.1	1.5	0.08	2.08	68.1	-0.2	1.0	-0.29	1.53
Chesapeake city (550)	83.2	0.3	1.6	0.37	1.97	79.6	0.2	1.1	0.22	1.43
Hampton city (650)	59.6	0.2	1.3	0.27	2.12	55.0	0.0	0.8	0.05	1.54
Newport News city (700)	76.2	0.1	1.5	0.10	2.03	70.7	-0.1	1.0	-0.10	1.48

State and County (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Norfolk city (710)	95.0	0.0	1.8	0.03	1.94	86.5	-0.2	1.2	-0.20	1.43
Richmond city (760)	98.3	0.2	1.9	0.18	1.93	87.2	-0.2	1.2	-0.18	1.43
Virginia Beach city (810)	177.9	0.9	3.0	0.50	1.66	165.1	0.4	2.1	0.26	1.24
Balance of Virginia	1,597.9	19.0	26.2	1.18	1.60	1,394.9	6.3	15.9	0.45	1.13
Washington (53)	2,885.7	29.4	46.0	1.01	1.56	2,620.1	12.0	28.3	0.46	1.07
Benton County (005)	68.6	1.0	1.5	1.46	2.13	65.3	0.7	1.1	1.00	1.58
Clark County (011)	167.4	1.0	2.8	0.59	1.66	158.1	0.6	2.0	0.36	1.23
Cowlitz County (015)	43.5	0.9	1.0	2.03	2.26	40.2	0.6	0.7	1.37	1.65
King County (033)	851.3	4.0	10.1	0.46	1.17	789.2	1.0	7.2	0.13	0.91
Kitsap County (035)	107.4	0.9	2.0	0.79	1.85	97.2	0.4	1.3	0.41	1.37
Pierce County (053)	325.4	2.9	4.8	0.88	1.45	299.9	1.5	3.3	0.50	1.10
Skagit County (057)	51.5	0.5	1.1	0.94	2.19	45.6	0.2	0.7	0.38	1.60
Snohomish County (061)	286.7	2.1	4.3	0.73	1.49	268.3	1.1	3.1	0.40	1.13
Spokane County (063)	201.4	3.5	3.4	1.70	1.63	187.2	2.1	2.3	1.09	1.23
Thurston County (067)	108.2	1.1	2.1	0.98	1.86	100.7	0.6	1.4	0.63	1.38
Whatcom County (073)	90.7	2.5	1.9	2.72	2.00	80.4	1.2	1.2	1.44	1.49
Yakima County (077)	85.5	1.4	1.7	1.63	1.97	80.6	0.9	1.2	1.13	1.45
Balance of Washington	498.3	7.6	15.2	1.51	2.95	407.4	1.2	7.9	0.30	1.93
West Virginia (54)	881.9	8.5	19.6	0.95	2.18	763.8	0.1	11.6	0.01	1.52
Berkeley County (003)	44.8	1.5	1.2	3.25	2.52	39.9	0.8	0.8	1.99	1.88
Kanawha County (039)	92.6	1.5	1.9	1.55	2.01	84.2	0.7	1.3	0.81	1.50
Balance of West Virginia	744.5	5.5	18.7	0.74	2.47	639.8	-1.4	10.6	-0.22	1.67
Wisconsin (55)	2,624.4	37.6	44.6	1.41	1.65	2,279.8	8.7	26.1	0.38	1.14
Brown County (009)	104.4	1.1	2.1	1.00	1.96	98.4	0.6	1.5	0.64	1.46
Dane County (025)	216.0	0.8	3.5	0.36	1.62	203.8	0.3	2.5	0.16	1.21
Fond du Lac County (039)	43.9	0.7	1.0	1.54	2.31	40.7	0.4	0.7	0.95	1.69
Kenosha County (059)	69.3	0.4	1.4	0.55	2.05	62.7	0.1	0.9	0.22	1.50
La Crosse County (063)	48.4	0.6	1.1	1.32	2.26	46.1	0.4	0.8	0.96	1.65
Marathon County (073)	57.7	0.8	1.3	1.43	2.19	53.2	0.5	0.9	0.88	1.60
Milwaukee County (079)	418.1	0.0	5.9	0.01	1.42	383.6	-0.7	4.2	-0.18	1.09
Outagamie County (087)	73.1	0.9	1.5	1.23	2.06	69.6	0.6	1.1	0.89	1.52
Racine County (101)	82.2	0.4	1.6	0.44	1.99	75.7	0.1	1.1	0.19	1.46
Rock County (105)	68.4	0.9	1.5	1.32	2.08	62.9	0.5	1.0	0.80	1.53
Sheboygan County (117)	50.8	0.7	1.2	1.37	2.24	46.4	0.4	0.8	0.79	1.63
Walworth County (127)	51.5	-0.2	1.3	-0.33	2.49	39.7	-0.3	0.7	-0.78	1.81
Washington County (131)	54.7	0.2	1.2	0.44	2.16	51.6	0.1	0.8	0.25	1.56
Waukesha County (133)	160.9	0.8	2.8	0.47	1.70	152.7	0.4	1.9	0.27	1.26
Winnebago County (139)	73.3	0.9	1.6	1.16	2.09	67.9	0.5	1.1	0.68	1.54
Balance of Wisconsin	1,051.7	28.6	23.0	2.65	2.07	824.9	4.6	11.9	0.55	1.43
Wyoming (56)	261.9	3.9	7.6	1.47	2.82	226.9	1.2	4.4	0.54	1.91

A positive estimate denotes a net undercount whereas a negative estimate denotes a net overcount.

The 2010 census count excludes Remote Alaska.

*Estimate is significantly different from zero.

Attachment 2: Net Coverage Estimates for Places with Population Greater than 100,000

State and Place (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Alabama (01)	2,171.9	26.2	37.6	1.19	1.69	1,883.8	6.5	22.3	0.34	1.17
Birmingham city (07000)	109.0	0.4	2.1	0.37	1.91	89.4	-0.2	1.3	-0.18	1.43
Huntsville city (37000)	84.9	0.3	1.7	0.33	1.96	77.0	0.0	1.1	-0.04	1.44
Mobile city (50000)	89.1	0.3	1.7	0.29	1.95	79.0	-0.1	1.1	-0.10	1.45
Montgomery (51000)	92.1	1.6	2.0	1.75	2.06	81.5	0.7	1.3	0.82	1.51
Balance of Alabama	1,796.7	23.6	28.1	1.30	1.53	1,556.9	6.1	17.3	0.39	1.11
Alaska (02)	278.4	5.1	8.1	1.79	2.80	241.1	1.6	4.7	0.67	1.90
Anchorage (03000)	113.0	1.7	2.2	1.45	1.87	107.3	1.1	1.5	0.99	1.40
Balance of Alaska	165.4	3.4	9.0	2.03	5.22	133.7	0.6	4.2	0.41	3.10
Arizona (04)	2,844.5	41.7	46.9	1.44	1.60	2,381.0	9.9	26.3	0.42	1.10
Chandler city (12000)	94.4	0.8	1.8	0.82	1.90	86.9	0.4	1.2	0.41	1.40
Gilbert town (27400)	74.9	0.6	1.5	0.81	2.00	69.4	0.3	1.0	0.43	1.47
Glendale city (27820)	90.5	0.7	1.8	0.77	1.93	79.1	0.1	1.1	0.17	1.43
Mesa city (46000)	201.2	2.8	3.5	1.36	1.70	165.4	0.3	2.1	0.21	1.24
Peoria city (54050)	64.8	0.7	1.4	1.08	2.06	57.5	0.3	0.9	0.46	1.51
Phoenix city (55000)	590.1	2.9	7.7	0.49	1.29	514.8	0.1	5.0	0.02	0.98
Scottsdale city (65000)	124.0	1.2	2.3	0.93	1.82	101.3	0.1	1.4	0.07	1.37
Surprise city (71510)	52.6	0.7	1.2	1.31	2.16	43.3	0.2	0.7	0.51	1.60
Tempe city (73000)	73.5	0.3	1.5	0.40	2.04	66.0	-0.1	1.0	-0.11	1.50
Tucson city (77000)	229.8	1.3	3.7	0.56	1.57	205.4	0.3	2.4	0.14	1.18
Balance of Arizona	1,248.8	29.8	25.0	2.33	1.91	992.0	7.9	13.4	0.79	1.33
Arkansas (05)	1,316.3	13.3	25.5	1.00	1.90	1,147.1	3.3	15.1	0.29	1.31
Little Rock city (41000)	91.3	0.4	1.8	0.38	1.94	82.0	0.0	1.2	0.02	1.43
Balance of Arkansas	1,225.0	13.0	23.0	1.05	1.84	1,065.1	3.3	13.7	0.31	1.27
California (06)	13,680.1	90.4	151.9	0.66	1.10	12,577.5	27.2	95.0	0.22	0.75
Anaheim city (02000)	104.2	0.3	2.0	0.28	1.87	98.3	0.0	1.4	0.03	1.37
Antioch city (02252)	34.8	0.2	0.8	0.64	2.38	32.3	0.1	0.6	0.36	1.71
Bakersfield (03526)	120.7	1.0	2.2	0.79	1.82	111.1	0.5	1.5	0.45	1.36
Berkeley city (06000)	49.5	0.1	1.1	0.21	2.25	46.0	0.0	0.7	-0.05	1.63
Burbank city (08954)	44.3	0.1	1.0	0.27	2.28	41.9	0.0	0.7	0.07	1.64
Carlsbad city (11194)	44.7	0.2	1.0	0.53	2.26	41.3	0.1	0.7	0.23	1.63
Chula Vista city (13392)	79.4	-0.1	1.6	-0.07	2.00	75.5	-0.2	1.1	-0.24	1.46
Concord city (16000)	47.1	0.1	1.1	0.29	2.24	44.3	0.0	0.7	0.04	1.61
Corona city (16350)	47.2	0.2	1.1	0.50	2.24	45.0	0.1	0.7	0.31	1.61
Costa Mesa city (16532)	42.1	0.1	1.0	0.31	2.30	39.9	0.0	0.7	0.07	1.65
Daly City city (17918)	32.6	0.1	0.8	0.24	2.44	31.1	0.0	0.5	0.03	1.74
Downey city (19766)	35.6	0.0	0.9	0.11	2.39	33.9	0.0	0.6	-0.05	1.70
East Los Angeles (20802)	32.2	-0.2	0.8	-0.70	2.52	30.8	-0.2	0.5	-0.74	1.80
Elk Grove city (22020)	50.6	0.3	1.1	0.54	2.18	47.9	0.2	0.8	0.35	1.57
El Monte city (22230)	29.1	0.0	0.7	0.01	2.52	27.8	0.0	0.5	-0.16	1.79
Escondido city (22804)	48.0	0.1	1.1	0.29	2.23	45.5	0.0	0.7	0.08	1.60
Fairfield city (23182)	37.2	0.3	0.9	0.73	2.35	34.5	0.1	0.6	0.40	1.69
Fontana city (24680)	51.9	0.1	1.1	0.28	2.19	49.1	0.1	0.8	0.12	1.57
Fremont (26000)	74.0	0.4	1.5	0.52	2.01	71.0	0.2	1.0	0.31	1.46
Fresno city (27000)	171.3	0.6	2.9	0.35	1.67	158.3	0.1	2.0	0.08	1.24
Fullerton city (28000)	47.9	0.3	1.1	0.55	2.22	45.4	0.1	0.7	0.30	1.60
Garden Grove city (29000)	47.8	0.2	1.1	0.32	2.23	46.0	0.1	0.7	0.17	1.60
Glendale city (30000)	76.3	0.1	1.6	0.08	2.04	72.3	-0.1	1.1	-0.15	1.49
Hayward (33000)	48.3	0.2	1.1	0.45	2.23	45.4	0.1	0.7	0.19	1.61
Huntington Beach (36000)	78.0	0.5	1.6	0.63	1.99	74.3	0.3	1.1	0.40	1.45

State and Place (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Inglewood city (36546)	38.4	-0.2	0.9	-0.65	2.41	36.4	-0.3	0.6	-0.78	1.73
Irvine city (36770)	83.9	0.6	1.7	0.77	1.96	79.0	0.4	1.1	0.46	1.44
Lancaster city (40130)	51.8	0.5	1.2	0.97	2.19	47.0	0.3	0.8	0.57	1.59
Long Beach (43000)	176.0	0.2	3.0	0.09	1.68	163.5	-0.3	2.0	-0.20	1.25
Los Angeles (44000)	1,414.0	-1.6	15.2	-0.11	1.08	1,318.2	-4.8	11.0	-0.37	0.84
Modesto city (48354)	75.0	0.5	1.5	0.61	2.00	69.1	0.2	1.0	0.32	1.46
Moreno Valley (49270)	55.6	0.2	1.2	0.32	2.16	51.6	0.1	0.8	0.11	1.56
Murrieta city (50076)	35.3	0.3	0.9	0.79	2.40	32.7	0.1	0.6	0.42	1.72
Norwalk city (52526)	28.1	0.0	0.7	0.16	2.52	27.1	0.0	0.5	0.05	1.78
Oakland city (53000)	169.7	0.4	2.9	0.23	1.71	153.8	-0.2	2.0	-0.14	1.28
Oceanside city (53322)	64.4	0.4	1.4	0.64	2.08	59.2	0.2	0.9	0.29	1.51
Ontario city (53896)	47.4	0.1	1.1	0.27	2.24	44.9	0.0	0.7	0.09	1.61
Orange city (53980)	45.1	0.2	1.0	0.43	2.25	43.4	0.1	0.7	0.25	1.61
Oxnard city (54652)	52.8	0.1	1.2	0.23	2.19	49.8	0.0	0.8	0.03	1.58
Palmdale city (55156)	46.5	0.3	1.1	0.54	2.24	43.0	0.1	0.7	0.28	1.62
Pasadena city (56000)	59.6	0.1	1.3	0.25	2.13	55.3	0.0	0.9	-0.08	1.55
Pomona city (58072)	40.7	0.1	0.9	0.19	2.32	38.5	0.0	0.6	0.04	1.66
Rancho Cucamonga (59451)	56.6	0.4	1.2	0.72	2.14	54.4	0.3	0.8	0.50	1.54
Richmond (60620)	39.3	0.2	0.9	0.51	2.34	36.1	0.1	0.6	0.21	1.69
Riverside city (62000)	98.4	0.4	1.9	0.45	1.89	91.9	0.2	1.3	0.18	1.38
Roseville city (62938)	47.8	0.3	1.1	0.66	2.21	45.1	0.2	0.7	0.41	1.59
Sacramento city (64000)	190.9	0.8	3.1	0.41	1.63	174.6	0.2	2.1	0.12	1.22
Salinas city (64224)	42.7	0.2	1.0	0.35	2.33	40.4	0.0	0.7	0.03	1.68
San Bernardino (65000)	65.4	0.2	1.4	0.27	2.10	59.3	0.0	0.9	-0.05	1.53
San Buenaventura (Ventura) (65042)	42.8	0.3	1.0	0.81	2.28	40.4	0.2	0.7	0.53	1.64
San Diego city (66000)	516.0	1.2	6.8	0.23	1.31	483.1	-0.1	4.8	-0.03	1.00
San Francisco city (67000)	376.9	1.5	5.5	0.39	1.44	345.8	-0.1	3.8	-0.02	1.10
San Jose city (68000)	314.0	1.4	4.6	0.44	1.47	301.4	0.8	3.4	0.26	1.11
Santa Ana city (69000)	76.9	0.0	1.6	-0.06	2.02	73.2	-0.2	1.1	-0.25	1.47
Santa Clara city (69084)	45.1	0.1	1.0	0.27	2.27	43.0	0.0	0.7	0.03	1.63
Santa Clarita (69088)	62.1	0.3	1.3	0.48	2.13	59.5	0.1	0.9	0.24	1.55
Santa Rosa city (70098)	67.4	0.4	1.4	0.63	2.05	63.6	0.2	1.0	0.39	1.49
Simi Valley city (72016)	42.5	0.3	1.0	0.61	2.28	41.2	0.2	0.7	0.45	1.63
Stockton city (75000)	99.6	0.7	1.9	0.73	1.87	90.6	0.3	1.3	0.30	1.38
Sunnyvale city (77000)	55.8	0.2	1.2	0.40	2.16	53.4	0.1	0.8	0.14	1.56
Temecula city (78120)	34.0	0.3	0.8	0.88	2.40	31.8	0.2	0.6	0.54	1.72
Thousand Oaks (78582)	47.5	0.3	1.1	0.63	2.22	45.8	0.2	0.7	0.44	1.59
Torrance city (80000)	58.4	0.3	1.3	0.55	2.14	56.0	0.2	0.9	0.29	1.55
Vallejo city (81666)	44.4	0.3	1.0	0.71	2.26	40.6	0.1	0.7	0.36	1.63
Victorville (82590)	36.7	0.4	0.9	1.08	2.38	32.6	0.2	0.6	0.58	1.73
Visalia city (82954)	44.2	0.6	1.0	1.44	2.26	41.3	0.4	0.7	0.96	1.63
West Covina city (84200)	32.7	0.1	0.8	0.45	2.42	31.6	0.1	0.5	0.29	1.72
Balance of California	7,182.7	71.6	57.6	0.99	0.79	6,499.3	25.8	40.0	0.40	0.61
Colorado (08)	2,212.9	19.3	37.5	0.86	1.67	1,972.9	5.3	22.5	0.27	1.13
Arvada city (03455)	44.4	0.2	1.0	0.42	2.26	42.7	0.1	0.7	0.26	1.61
Aurora city (04000)	131.0	0.3	2.3	0.22	1.78	121.9	-0.1	1.6	-0.05	1.31
Centennial city (12815)	38.8	0.2	0.9	0.51	2.32	37.4	0.1	0.6	0.37	1.65
Colorado Springs (16000)	179.6	1.0	3.0	0.53	1.64	167.8	0.5	2.1	0.27	1.22
Denver city (20000)	285.8	0.8	4.3	0.27	1.50	263.1	-0.1	3.0	-0.05	1.13
Fort Collins (27425)	60.5	0.9	1.3	1.42	2.13	57.8	0.6	0.9	1.03	1.56
Lakewood city (43000)	65.8	0.2	1.4	0.34	2.08	62.0	0.1	0.9	0.10	1.51
Pueblo city (62000)	47.6	0.8	1.1	1.56	2.22	43.3	0.4	0.7	0.89	1.61
Thornton city (77290)	43.2	0.2	1.0	0.40	2.27	41.4	0.1	0.7	0.22	1.63
Westminster city (83835)	44.0	0.2	1.0	0.40	2.27	42.0	0.1	0.7	0.20	1.63
Balance of Colorado	1,272.2	14.6	23.5	1.14	1.80	1,093.4	3.5	13.7	0.32	1.24

State and Place (FIPS Code)	All Housing Units					Occupied Units				
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Connecticut (09)	1,487.9	-5.7	27.6	-0.38	1.87	1,371.1	-6.8	17.1	-0.50	1.26
Bridgeport city (08000)	57.0	-0.7	1.3	-1.33	2.27	51.3	-0.7	0.8	-1.37	1.65
Hartford city (37000)	51.8	-1.2	1.2	-2.36	2.47	45.1	-1.0	0.8	-2.22	1.80
New Haven city (52000)	55.0	-1.1	1.3	-2.03	2.40	48.9	-1.0	0.8	-2.05	1.76
Stamford city (73000)	50.6	-0.6	1.1	-1.29	2.32	47.4	-0.7	0.8	-1.47	1.70
Waterbury city (80000)	48.0	-0.5	1.1	-1.13	2.33	42.8	-0.5	0.7	-1.10	1.68
Balance of Connecticut	1,225.5	-1.5	22.6	-0.12	1.85	1,135.7	-3.0	14.0	-0.26	1.23
Delaware (10)	405.9	4.3	10.5	1.06	2.54	342.3	0.9	5.9	0.25	1.73
District of Columbia (11)	296.7	-0.2	8.2	-0.07	2.77	266.7	-1.6	5.0	-0.60	1.89
Florida (12)	8,989.6	90.6	113.4	1.00	1.24	7,420.8	2.5	63.0	0.03	0.85
Brandon CDP (08150)	43.4	0.2	1.0	0.55	2.32	39.9	0.0	0.7	0.10	1.70
Cape Coral (10275)	78.9	1.1	1.6	1.41	1.99	60.8	0.3	0.9	0.47	1.50
Clearwater city (12875)	59.2	0.4	1.3	0.73	2.22	47.6	-0.1	0.8	-0.29	1.62
Coral Springs city (14400)	45.4	0.2	1.0	0.34	2.27	41.8	0.0	0.7	0.01	1.64
Fort Lauderdale (24000)	93.2	0.7	1.9	0.78	2.01	74.8	-0.2	1.1	-0.23	1.50
Gainesville city (25175)	57.6	0.6	1.4	1.08	2.35	51.0	0.0	0.9	0.00	1.78
Hialeah city (30000)	74.1	-0.6	1.5	-0.80	2.12	71.2	-0.7	1.1	-0.96	1.57
Hollywood city (32000)	71.1	0.5	1.5	0.65	2.11	58.4	-0.2	0.9	-0.29	1.56
Jacksonville (35000)	366.3	1.8	5.3	0.49	1.43	323.1	0.2	3.5	0.05	1.08
Miami city (45000)	184.0	-1.4	3.2	-0.79	1.79	158.3	-2.3	2.2	-1.45	1.40
Miami Gardens (45060)	34.3	0.0	0.8	-0.12	2.46	32.2	-0.1	0.6	-0.37	1.77
Miramar city (45975)	40.3	0.0	0.9	-0.03	2.35	37.4	-0.1	0.6	-0.27	1.69
Orlando city (53000)	121.3	0.0	2.3	0.00	1.90	102.5	-0.7	1.4	-0.67	1.42
Palm Bay city (54000)	45.2	0.4	1.0	0.82	2.24	39.5	0.1	0.7	0.36	1.64
Pembroke Pines (55775)	61.7	0.2	1.3	0.33	2.12	56.9	-0.1	0.9	-0.10	1.55
Port St. Lucie (58715)	70.9	0.6	1.5	0.86	2.02	60.9	0.2	0.9	0.35	1.49
St. Petersburg (63000)	129.4	0.6	2.4	0.42	1.83	108.8	-0.3	1.5	-0.23	1.36
Tallahassee (70600)	84.2	1.5	1.9	1.77	2.15	74.8	0.4	1.2	0.54	1.60
Tampa city (71000)	157.1	0.3	2.7	0.19	1.74	136.0	-0.4	1.8	-0.28	1.31
Balance of Florida	7,172.1	83.5	61.5	1.15	0.84	5,844.8	6.2	37.1	0.11	0.63
Georgia (13)	4,088.8	37.4	60.7	0.91	1.46	3,585.6	9.4	36.2	0.26	1.00
Athens-Clarke County (03440)	50.5	0.8	1.2	1.54	2.30	39.9	0.0	0.7	0.10	1.70
Atlanta city (04000)	224.6	1.1	3.8	0.48	1.68	60.8	0.3	0.9	0.47	1.50
Augusta-Richmond County (04204)	84.4	0.6	1.7	0.69	1.96	47.6	-0.1	0.8	-0.29	1.62
Columbus (19000)	82.7	1.5	1.8	1.77	2.10	41.8	0.0	0.7	0.01	1.64
Savannah (69000)	61.9	1.1	1.4	1.82	2.23	74.8	-0.2	1.1	-0.23	1.50
Balance of Georgia	3,584.8	32.3	39.6	0.89	1.09	51.0	0.0	2.4	0.00	4.72
Hawaii (15)	519.5	0.3	13.0	0.05	2.49	455.3	-3.8	7.7	-0.84	1.71
Urban Honolulu (71550)	143.2	-0.6	2.7	-0.42	1.88	129.4	-1.4	1.8	-1.08	1.45
Balance of Hawaii	376.3	0.9	13.3	0.23	3.53	325.9	-2.4	7.1	-0.75	2.21
Idaho (16)	667.8	12.0	15.3	1.77	2.21	579.4	4.2	8.9	0.73	1.51
Boise City city (08830)	92.7	0.8	1.8	0.84	1.90	85.7	0.4	1.2	0.50	1.40
Balance of Idaho	575.1	11.2	16.0	1.91	2.68	493.7	3.8	8.7	0.76	1.74
Illinois (17)	5,296.7	12.4	73.7	0.23	1.38	4,837.0	-4.7	46.3	-0.10	0.96
Aurora city (03012)	67.3	-0.9	1.5	-1.29	2.28	62.6	-0.9	1.0	-1.44	1.70
Chicago city (14000)	1,194.3	-11.4	15.2	-0.96	1.29	1,045.6	-14.0	10.5	-1.35	1.04
Elgin city (23074)	37.8	0.1	0.9	0.20	2.35	35.1	0.0	0.6	0.00	1.69
Joliet city (38570)	51.3	0.2	1.1	0.43	2.19	48.0	0.1	0.8	0.23	1.58

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Naperville city (51622)	52.3	0.2	1.1	0.44	2.18	50.0	0.1	0.8	0.24	1.57
Peoria city (59000)	52.6	0.7	1.2	1.40	2.26	47.2	0.3	0.8	0.66	1.65
Rockford city (65000)	66.7	0.9	1.5	1.31	2.16	60.0	0.4	1.0	0.68	1.59
Springfield city (72000)	55.7	0.8	1.3	1.46	2.22	50.7	0.4	0.8	0.85	1.62
Balance of Illinois	3,718.7	21.6	39.3	0.58	1.05	3,437.9	8.7	27.2	0.25	0.79
Indiana (18)	2,795.5	21.1	45.2	0.75	1.59	2,502.2	9.0	27.5	0.36	1.09
Evansville city (22000)	57.8	1.0	1.3	1.73	2.19	50.6	0.5	0.8	0.92	1.60
Fort Wayne city (25000)	113.5	0.6	2.1	0.53	1.83	101.6	0.3	1.4	0.27	1.36
Indianapolis city (36003)	379.9	1.6	5.5	0.43	1.43	332.2	0.3	3.6	0.10	1.09
South Bend city (71000)	46.3	0.3	1.1	0.59	2.25	39.8	0.1	0.7	0.18	1.65
Balance of Indiana	2,198.0	17.5	30.6	0.79	1.37	1,978.0	7.8	19.7	0.39	0.99
Iowa (19)	1,336.4	8.1	25.8	0.61	1.91	1,221.6	3.4	16.0	0.28	1.30
Cedar Rapids city (12000)	57.2	0.8	1.3	1.38	2.21	53.2	0.5	0.9	0.84	1.63
Des Moines city (21000)	88.7	0.1	1.7	0.09	1.96	81.4	-0.1	1.2	-0.09	1.44
Balance of Iowa	1,190.5	7.3	22.7	0.61	1.88	1,087.0	3.0	13.9	0.28	1.28
Kansas (20)	1,233.2	7.1	24.2	0.58	1.94	1,112.1	2.5	14.8	0.23	1.32
Kansas City city (36000)	62.0	0.2	1.3	0.31	2.12	53.9	0.0	0.8	0.04	1.55
Olathe city (52575)	46.9	0.1	1.1	0.26	2.25	44.5	0.0	0.7	0.11	1.62
Overland Park (53775)	76.3	0.3	1.5	0.45	2.01	71.4	0.2	1.1	0.26	1.47
Topeka city (71000)	59.6	1.0	1.4	1.58	2.20	53.9	0.5	0.9	0.86	1.63
Wichita city (79000)	167.3	0.6	2.9	0.39	1.70	151.8	0.2	1.9	0.12	1.27
Balance of Kansas	821.2	4.9	18.9	0.59	2.28	736.5	1.6	11.1	0.22	1.50
Kentucky (21)	1,927.2	12.1	34.0	0.62	1.74	1,720.0	3.0	20.6	0.17	1.19
Lexington-Fayette urban (46027)	135.2	0.5	2.4	0.37	1.79	123.0	0.1	1.6	0.04	1.32
Louisville/Jefferson County (48006)	270.9	0.8	4.1	0.30	1.52	246.4	0.2	2.8	0.10	1.14
Balance of Kentucky	1,521.1	10.8	25.7	0.70	1.66	1,350.5	2.7	15.8	0.20	1.17
Louisiana (22)	1,965.0	16.5	34.4	0.83	1.72	1,728.4	4.2	20.6	0.24	1.18
Baton Rouge (05000)	100.8	0.2	1.9	0.18	1.90	91.5	-0.2	1.3	-0.20	1.41
Lafayette city (40735)	53.4	0.1	1.2	0.18	2.20	49.4	-0.1	0.8	-0.12	1.60
Metairie CDP (50115)	65.7	0.2	1.4	0.28	2.09	59.9	0.0	0.9	-0.01	1.52
New Orleans (55000)	189.9	-0.3	3.6	-0.18	1.92	142.2	-1.4	2.0	-1.01	1.41
Shreveport (70000)	88.3	1.2	1.8	1.40	2.00	80.7	0.6	1.2	0.72	1.49
Balance of Louisiana	1,467.0	15.1	24.8	1.02	1.66	1,304.7	5.3	15.3	0.40	1.16
Maine (23)	721.8	1.5	17.7	0.21	2.45	557.2	-4.6	9.4	-0.83	1.72
Maryland (24)	2,378.8	15.3	39.7	0.64	1.65	2,156.4	3.2	24.3	0.15	1.12
Baltimore (04000)	296.7	0.7	4.9	0.23	1.64	249.9	-0.6	3.0	-0.22	1.21
Balance of Maryland	2,082.1	14.6	29.3	0.70	1.39	1,906.5	3.7	18.9	0.19	0.99
Massachusetts (25)	2,808.3	-4.7	45.3	-0.17	1.62	2,547.1	-14.9	27.8	-0.59	1.11
Boston city (07000)	272.5	-5.6	4.4	-2.11	1.70	252.7	-5.4*	3.2	-2.19*	1.31
Cambridge city (11000)	47.3	-0.7	1.1	-1.60	2.40	44.0	-0.8	0.8	-1.81	1.77
Lowell city (37000)	41.4	-0.5	1.0	-1.20	2.41	38.5	-0.5	0.7	-1.25	1.73
Springfield city (67000)	61.7	-0.6	1.3	-0.98	2.19	56.8	-0.5	0.9	-0.87	1.58
Worcester city (82000)	74.6	-1.0	1.5	-1.29	2.12	68.6	-0.8	1.0	-1.22	1.54
Balance of Massachusetts	2,310.7	3.7	31.2	0.16	1.35	2,086.5	-6.9	20.1	-0.33	0.97
Michigan (26)	4,532.2	43.1	65.6	0.94	1.42	3,872.5	12.6	38.1	0.33	0.98
Ann Arbor city (03000)	49.8	0.2	1.1	0.46	2.21	47.1	0.1	0.8	0.23	1.60
Detroit city (22000)	349.2	2.4	5.3	0.67	1.51	269.4	-0.4	3.1	-0.15	1.16

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Flint city (29000)	51.3	0.5	1.1	0.89	2.19	40.5	0.1	0.7	0.21	1.64
Grand Rapids city (34000)	80.6	0.1	1.6	0.09	2.01	72.1	-0.1	1.1	-0.07	1.48
Lansing city (46000)	54.2	0.2	1.2	0.35	2.18	48.5	0.0	0.8	0.05	1.60
Sterling Heights (76460)	52.2	0.3	1.1	0.62	2.17	49.5	0.2	0.8	0.40	1.56
Warren city (84000)	57.9	0.4	1.2	0.67	2.12	53.4	0.2	0.8	0.37	1.54
Balance of Michigan	3,837.0	39.1	41.4	1.01	1.06	3,292.1	12.5	26.3	0.38	0.79
Minnesota (27)	2,347.2	21.5	40.2	0.91	1.68	2,087.2	4.9	24.2	0.23	1.15
Minneapolis (43000)	178.3	-0.2	3.1	-0.09	1.74	163.5	-0.6	2.1	-0.36	1.31
Rochester city (54880)	45.7	0.7	1.1	1.57	2.31	43.0	0.5	0.7	1.06	1.69
St. Paul city (58000)	120.8	0.0	2.3	-0.01	1.87	111.0	-0.3	1.5	-0.23	1.39
Balance of Minnesota	2,002.4	20.9	29.9	1.03	1.46	1,769.7	5.3	18.6	0.30	1.05
Mississippi (28)	1,274.7	7.1	25.1	0.55	1.95	1,115.8	-0.9	15.0	-0.08	1.35
Jackson city (36000)	74.5	0.3	1.5	0.43	2.03	64.5	0.0	1.0	-0.05	1.50
Balance of Mississippi	1,200.2	6.8	23.0	0.56	1.90	1,051.2	-0.9	13.8	-0.08	1.32
Missouri (29)	2,712.7	21.6	45.6	0.79	1.66	2,375.6	5.7	27.1	0.24	1.14
Columbia city (15670)	46.8	0.6	1.1	1.35	2.35	43.1	0.3	0.8	0.70	1.73
Independence (35000)	53.8	0.2	1.2	0.43	2.17	48.7	0.1	0.8	0.21	1.58
Kansas City (38000)	221.9	0.9	3.6	0.42	1.61	192.4	0.2	2.4	0.08	1.22
St. Louis city (65000)	176.0	-0.5	3.2	-0.31	1.85	142.1	-1.0	1.9	-0.70	1.39
Springfield city (70000)	77.6	1.3	1.7	1.63	2.13	69.8	0.6	1.1	0.84	1.60
Balance of Missouri	2,136.7	19.1	31.6	0.88	1.45	1,879.6	5.6	19.7	0.30	1.04
Montana (30)	482.8	9.3	12.1	1.89	2.42	409.6	3.3	6.9	0.81	1.65
Billings city (06550)	46.3	0.8	1.1	1.63	2.23	43.9	0.5	0.7	1.21	1.62
Balance of Montana	436.5	8.5	14.2	1.92	3.12	365.7	2.8	7.4	0.76	1.99
Nebraska (31)	796.8	5.4	17.4	0.67	2.15	721.1	2.1	10.6	0.29	1.46
Lincoln city (28000)	110.5	1.5	2.2	1.31	1.94	103.5	0.9	1.5	0.85	1.46
Omaha city (37000)	177.5	0.6	3.0	0.34	1.68	162.6	0.2	2.0	0.11	1.25
Balance of Nebraska	508.7	3.3	15.0	0.65	2.91	455.0	1.0	8.3	0.23	1.82
Nevada (32)	1,173.8	13.8	23.5	1.16	1.96	1,006.3	3.5	13.7	0.35	1.35
Enterprise CDP (23770)	49.6	0.9	1.2	1.83	2.31	39.8	0.2	0.7	0.58	1.74
Henderson city (31900)	113.6	1.1	2.1	0.98	1.82	101.3	0.5	1.4	0.45	1.35
Las Vegas city (40000)	243.7	1.5	3.9	0.60	1.58	211.7	0.1	2.5	0.04	1.19
North Las Vegas (51800)	76.1	0.6	1.5	0.83	2.00	66.5	0.2	1.0	0.33	1.47
Paradise CDP (54600)	114.3	1.2	2.2	1.04	1.91	90.1	0.0	1.3	-0.06	1.44
Reno city (60600)	102.6	1.8	2.1	1.74	1.95	90.9	0.7	1.3	0.72	1.45
Spring Valley CDP (68585)	83.7	1.0	1.7	1.18	2.04	71.8	0.1	1.1	0.19	1.52
Sunrise Manor CDP (71400)	70.3	0.4	1.5	0.62	2.13	60.9	0.0	1.0	-0.02	1.57
Balance of Nevada	320.1	5.2	12.1	1.59	3.66	273.2	1.8	6.2	0.65	2.25
New Hampshire (33)	614.8	4.2	14.6	0.67	2.34	519.0	-1.5	8.3	-0.29	1.62
Manchester city (45140)	49.3	-0.4	1.1	-0.72	2.30	45.8	-0.3	0.8	-0.75	1.67
Balance of New Hampshire	565.5	4.5	16.1	0.79	2.80	473.2	-1.2	8.6	-0.25	1.84
New Jersey (34)	3,553.6	-16.5	55.2	-0.47	1.57	3,214.4	-24.0	34.0	-0.75	1.07
Elizabeth city (21000)	45.5	-1.7	1.2	-3.80	2.73	41.6	-1.5*	0.8	-3.62*	2.02
Jersey City city (36000)	108.7	-3.5	2.4	-3.35	2.41	96.9	-3.5*	1.7	-3.75*	1.91
Newark city (51000)	109.5	-3.6	2.5	-3.35	2.44	94.5	-3.3*	1.7	-3.67*	1.92
Paterson city (57000)	47.9	-1.9	1.2	-4.07	2.74	44.3	-1.7*	0.8	-3.98*	2.06
Balance of New Jersey	3,241.9	-5.8	37.8	-0.18	1.17	2,937.0	-14.0	25.1	-0.48	0.86

State and Place (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
New Mexico (35)	901.4	12.1	19.7	1.33	2.13	791.4	3.4	11.7	0.43	1.47
Albuquerque (02000)	239.2	0.9	3.7	0.38	1.55	224.3	0.3	2.6	0.14	1.16
Balance of New Mexico	662.2	11.2	17.8	1.67	2.60	567.1	3.1	10.0	0.54	1.74
New York (36)	8,108.1	-91.2	106.1	-1.14	1.34	7,317.8	-103.0	66.5	-1.43	0.93
Buffalo city (11000)	133.4	-2.8	2.6	-2.17	2.00	112.5	-2.0	1.6	-1.79	1.46
New York (51000)	3,371.1	-82.2*	36.0	-2.50*	1.12	3,109.8	-80.4*	27.8	-2.66*	0.94
Rochester city (63000)	97.2	-1.2	1.9	-1.21	2.01	87.0	-0.9	1.3	-1.02	1.47
Syracuse city (73000)	64.4	-0.6	1.4	-0.94	2.19	57.4	-0.5	0.9	-0.87	1.59
Yonkers city (84000)	80.4	-1.8	1.7	-2.25	2.24	74.6	-1.7	1.2	-2.39	1.69
Balance of New York	4,361.7	-2.7	46.0	-0.06	1.06	3,876.5	-17.5	29.9	-0.45	0.78
North Carolina (37)	4,327.5	45.4	64.0	1.04	1.45	3,745.2	8.8	37.6	0.23	1.00
Cary town (10740)	55.3	0.4	1.2	0.77	2.14	51.8	0.3	0.8	0.49	1.55
Charlotte city (12000)	319.9	0.7	4.7	0.22	1.47	289.9	-0.2	3.2	-0.07	1.11
Durham city (19000)	103.2	0.2	2.0	0.16	1.89	93.4	-0.1	1.3	-0.14	1.40
Fayetteville city (22920)	87.0	1.3	1.8	1.49	2.01	78.3	0.6	1.2	0.75	1.48
Greensboro (28000)	124.1	0.1	2.3	0.04	1.84	111.7	-0.3	1.5	-0.26	1.37
High Point city (31400)	46.7	0.2	1.1	0.47	2.25	40.9	0.0	0.7	0.06	1.64
Raleigh city (55000)	176.1	0.5	3.0	0.26	1.67	163.0	-0.1	2.0	-0.03	1.25
Wilmington (74440)	53.4	0.8	1.3	1.50	2.34	46.9	0.3	0.8	0.53	1.72
Winston-Salem (75000)	104.0	0.3	2.0	0.34	1.88	92.3	0.0	1.3	-0.01	1.39
Balance of North Carolina	3,257.8	40.8	39.2	1.24	1.17	2,776.9	8.3	24.5	0.30	0.88
North Dakota (38)	317.5	4.3	8.9	1.32	2.72	281.2	1.7	5.4	0.60	1.88
Fargo city (25700)	50.0	0.7	1.3	1.42	2.47	46.8	0.4	0.9	0.80	1.91
Balance of North Dakota	267.5	3.5	11.1	1.30	4.06	234.4	1.3	5.8	0.56	2.44
Ohio (39)	5,127.5	30.9	71.9	0.60	1.38	4,603.4	12.2	44.0	0.27	0.95
Akron city (01000)	96.3	0.4	1.9	0.38	1.92	83.7	0.1	1.2	0.10	1.42
Cincinnati city (15000)	161.1	-0.1	3.0	-0.06	1.83	133.4	-0.6	1.8	-0.44	1.37
Cleveland city (16000)	207.5	-0.5	3.5	-0.26	1.72	167.5	-0.9	2.1	-0.54	1.29
Columbus (18000)	371.0	1.8	5.3	0.47	1.42	331.6	0.6	3.6	0.18	1.08
Dayton city (21000)	74.1	0.4	1.5	0.53	2.05	58.4	0.0	0.9	0.05	1.53
Toledo city (77000)	138.0	0.6	2.5	0.41	1.78	119.7	0.1	1.6	0.09	1.33
Balance of Ohio	4,079.5	28.4	41.9	0.69	1.01	3,709.1	12.9	28.6	0.35	0.77
Oklahoma (40)	1,664.4	8.5	30.4	0.51	1.81	1,460.5	-0.4	18.1	-0.03	1.24
Norman (52500)	48.0	0.2	1.1	0.33	2.24	44.7	0.1	0.7	0.14	1.62
Oklahoma City (55000)	256.9	1.1	4.0	0.44	1.53	230.2	0.4	2.7	0.17	1.15
Tulsa city (75000)	185.1	0.5	3.1	0.27	1.66	164.0	0.0	2.0	0.00	1.24
Balance of Oklahoma	1,174.4	6.7	22.6	0.56	1.91	1,021.6	-0.8	13.4	-0.08	1.32
Oregon (41)	1,675.6	21.1	30.4	1.24	1.77	1,518.9	9.7	18.6	0.63	1.21
Eugene city (23850)	70.0	1.1	1.5	1.49	2.06	66.4	0.7	1.0	1.06	1.52
Gresham city (31250)	41.0	0.2	1.0	0.54	2.30	38.7	0.1	0.6	0.28	1.66
Portland (59000)	265.4	1.3	4.0	0.49	1.50	248.5	0.6	2.8	0.24	1.13
Salem city (64900)	61.3	1.0	1.3	1.57	2.10	57.3	0.6	0.9	1.09	1.53
Balance of Oregon	1,237.9	17.5	23.0	1.39	1.81	1,108.0	7.6	13.9	0.68	1.24
Pennsylvania (42)	5,567.3	-3.0	77.9	-0.05	1.40	5,018.9	-12.4	47.8	-0.25	0.96
Allentown city (02000)	46.9	-0.6	1.1	-1.30	2.38	42.8	-0.5	0.7	-1.14	1.71
Erie city (24000)	44.8	0.1	1.1	0.19	2.42	40.9	0.0	0.7	-0.02	1.75
Philadelphia (60000)	670.2	-3.2	8.8	-0.49	1.33	599.7	-3.9	6.0	-0.65	1.01
Pittsburgh city (61000)	156.2	-1.2	2.8	-0.80	1.80	136.2	-1.1	1.8	-0.84	1.34
Balance of Pennsylvania	4,649.3	2.0	47.4	0.04	1.02	4,199.2	-7.0	32.1	-0.17	0.77

State and Place (FIPS Code)	All Housing Units					Occupied Units				
	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)	Census Count (×1000)	Net Undercount (×1000)	RMSE (×1000)	Percent Net Undercount (%)	RMSE (%)
Rhode Island (44)	463.4	-1.5	11.4	-0.33	2.49	413.6	-2.2	6.8	-0.54	1.67
Providence city (59000)	71.5	-1.5	1.6	-2.19	2.32	62.7	-1.2	1.0	-2.02	1.68
Balance of Rhode Island	391.9	0.0	13.2	0.00	3.36	350.9	-1.0	7.1	-0.28	2.04
South Carolina (45)	2,137.7	25.2	37.2	1.16	1.70	1,801.2	3.1	21.2	0.17	1.17
Charleston (13330)	59.5	0.1	1.3	0.15	2.17	52.3	-0.1	0.8	-0.27	1.60
Columbia city (16000)	52.5	0.1	1.2	0.24	2.21	45.7	-0.1	0.7	-0.22	1.62
Balance of South Carolina	2,025.7	24.9	29.9	1.22	1.44	1,703.2	3.4	17.9	0.20	1.05
South Dakota (46)	363.4	5.2	9.8	1.41	2.62	322.3	2.4	5.9	0.73	1.80
Sioux Falls city (59020)	66.3	1.1	1.5	1.65	2.18	61.7	0.7	1.0	1.09	1.63
Balance of South Dakota	297.2	4.1	11.7	1.35	3.84	260.6	1.7	6.1	0.65	2.33
Tennessee (47)	2,812.1	19.0	45.0	0.67	1.58	2,493.6	5.4	27.1	0.22	1.08
Chattanooga (14000)	79.6	0.1	1.6	0.19	2.02	70.7	-0.1	1.1	-0.15	1.49
Clarksville city (15160)	54.8	1.2	1.3	2.11	2.24	49.4	0.6	0.8	1.25	1.65
Knoxville city (40000)	88.0	0.3	1.7	0.32	1.97	78.0	0.0	1.1	-0.03	1.46
Memphis city (48000)	291.9	0.6	4.5	0.20	1.52	250.3	-0.2	2.9	-0.09	1.15
Murfreesboro (51560)	45.5	0.2	1.0	0.40	2.27	41.9	0.0	0.7	0.06	1.65
Nashville-Davidson metropolitan (52006)	272.6	1.0	4.2	0.35	1.52	249.0	0.1	2.9	0.03	1.14
Balance of Tennessee	1,979.7	15.7	28.8	0.79	1.43	1,754.0	5.1	18.1	0.29	1.03
Texas (48)	9,977.4	63.3	118.3	0.63	1.17	8,922.9	8.0	72.5	0.09	0.81
Abilene city (01000)	47.8	0.7	1.1	1.36	2.26	43.6	0.3	0.7	0.74	1.65
Amarillo city (03000)	80.3	1.1	1.7	1.35	2.03	73.9	0.6	1.1	0.74	1.49
Arlington city (04000)	144.8	0.4	2.5	0.25	1.74	133.1	0.0	1.7	-0.04	1.29
Austin city (05000)	354.2	-0.6	5.3	-0.16	1.49	324.9	-1.4	3.6	-0.44	1.13
Beaumont city (07000)	50.7	0.9	1.2	1.84	2.26	45.6	0.4	0.8	0.94	1.67
Brownsville (10768)	53.9	0.1	1.3	0.19	2.36	49.9	-0.1	0.9	-0.27	1.74
Carrollton city (13024)	45.5	0.2	1.0	0.42	2.25	43.3	0.1	0.7	0.18	1.61
Corpus Christi (17000)	125.5	1.0	2.6	0.82	2.05	112.8	0.0	1.7	-0.03	1.50
Dallas city (19000)	516.6	0.7	6.9	0.13	1.34	458.1	-1.9	4.7	-0.41	1.03
Denton city (19972)	46.2	0.1	1.1	0.31	2.26	42.6	0.0	0.7	-0.06	1.64
El Paso city (24000)	227.6	-1.1	3.7	-0.49	1.62	216.9	-1.2	2.6	-0.56	1.22
Fort Worth (27000)	291.1	1.5	4.4	0.52	1.49	262.7	0.4	3.0	0.16	1.12
Frisco city (27684)	42.3	0.4	1.0	0.82	2.27	39.9	0.2	0.7	0.52	1.63
Garland city (29000)	80.8	0.2	1.6	0.28	1.98	75.7	0.1	1.1	0.08	1.44
Grand Prairie (30464)	62.4	-0.1	1.3	-0.11	2.16	58.2	-0.2	0.9	-0.39	1.58
Houston (35000)	892.6	0.1	10.9	0.01	1.22	782.6	-4.1	7.2	-0.52	0.93
Irving city (37000)	91.1	-0.2	1.8	-0.18	1.96	82.5	-0.5	1.2	-0.57	1.45
Killeen city (39148)	53.9	1.2	1.4	2.24	2.41	48.1	0.6	0.9	1.27	1.83
Laredo city (41464)	68.6	0.2	1.6	0.34	2.27	63.5	0.0	1.1	-0.06	1.70
Lubbock city (45000)	95.9	1.1	1.9	1.14	1.97	88.5	0.5	1.3	0.58	1.46
McAllen city (45384)	45.9	-0.2	1.1	-0.41	2.35	41.6	-0.3	0.7	-0.61	1.72
McKinney city (45744)	47.9	0.4	1.1	0.75	2.22	44.4	0.1	0.7	0.32	1.61
Mesquite city (47892)	52.0	0.2	1.1	0.29	2.19	48.4	0.0	0.8	0.05	1.58
Midland city (48072)	44.7	0.4	1.1	0.86	2.33	41.9	0.2	0.7	0.37	1.69
Pasadena city (56000)	53.9	0.1	1.2	0.13	2.19	48.5	-0.1	0.8	-0.25	1.60
Plano city (58016)	103.7	0.3	1.9	0.29	1.87	99.1	0.1	1.4	0.07	1.37
San Antonio (65000)	524.2	0.1	7.0	0.03	1.34	479.6	-1.1	4.9	-0.23	1.02
Waco city (76000)	51.5	0.6	1.2	1.20	2.25	46.4	0.2	0.8	0.52	1.66
Wichita Falls city (79000)	43.6	0.7	1.0	1.53	2.33	38.5	0.3	0.7	0.69	1.70
Balance of Texas	5,638.0	52.6	49.2	0.93	0.86	4,988.2	14.9	34.1	0.30	0.68
Utah (49)	979.7	12.3	20.2	1.24	2.01	877.7	4.9	12.1	0.56	1.37
Provo city (62470)	33.2	0.1	0.8	0.37	2.42	31.5	0.1	0.5	0.21	1.73
Salt Lake City (67000)	80.7	0.2	1.6	0.21	1.99	74.5	0.0	1.1	-0.07	1.46

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West Jordan city (82950)	31.4	0.3	0.8	0.84	2.44	29.8	0.2	0.5	0.57	1.74
West Valley City (83470)	39.0	0.2	0.9	0.42	2.33	37.1	0.1	0.6	0.24	1.67
Balance of Utah	795.4	11.6	18.5	1.44	2.26	704.7	4.6	10.6	0.65	1.49
Vermont (50)	322.5	0.4	9.2	0.13	2.84	256.4	-1.9	4.9	-0.75	1.95
Virginia (51)	3,364.9	25.5	51.4	0.75	1.51	3,056.1	8.4	31.6	0.27	1.03
Alexandria city (01000)	72.4	0.1	1.5	0.08	2.08	68.1	-0.2	1.0	-0.29	1.53
Arlington CDP (03000)	105.4	0.2	2.0	0.16	1.89	98.1	-0.3	1.4	-0.26	1.41
Chesapeake (16000)	83.2	0.3	1.6	0.37	1.97	79.6	0.2	1.1	0.22	1.43
Hampton city (35000)	59.6	0.2	1.3	0.27	2.12	55.0	0.0	0.8	0.05	1.54
Newport News (56000)	76.2	0.1	1.5	0.10	2.03	70.7	-0.1	1.0	-0.10	1.48
Norfolk city (57000)	95.0	0.0	1.8	0.03	1.94	86.5	-0.2	1.2	-0.20	1.43
Richmond city (67000)	98.3	0.2	1.9	0.18	1.93	87.2	-0.2	1.2	-0.18	1.43
Virginia Beach (82000)	177.9	0.9	3.0	0.50	1.66	165.1	0.4	2.1	0.26	1.24
Balance of Virginia	2,597.0	23.7	32.8	0.90	1.24	2,345.9	8.6	21.3	0.37	0.90
Washington (53)	2,885.7	29.4	46.0	1.01	1.56	2,620.1	12.0	28.3	0.46	1.07
Bellevue city (05210)	55.6	0.2	1.2	0.35	2.17	50.4	0.0	0.8	-0.06	1.58
Everett city (22640)	44.6	0.1	1.0	0.28	2.28	41.3	0.0	0.7	-0.02	1.65
Seattle (63000)	308.5	1.1	4.6	0.35	1.48	283.5	-0.1	3.2	-0.03	1.12
Spokane city (67000)	94.3	1.4	1.9	1.44	1.92	87.3	0.8	1.3	0.85	1.42
Tacoma city (70000)	85.8	0.4	1.7	0.49	1.95	78.5	0.1	1.1	0.16	1.43
Vancouver (74060)	70.0	0.3	1.4	0.50	2.04	65.7	0.2	1.0	0.24	1.49
Balance of Washington	2,226.9	25.8	30.7	1.15	1.35	2,013.4	11.1	19.8	0.55	0.97
West Virginia (54)	881.9	8.5	19.6	0.95	2.18	763.8	0.1	11.6	0.01	1.52
Wisconsin (55)	2,624.4	37.6	44.6	1.41	1.65	2,279.8	8.7	26.1	0.38	1.14
Green Bay (31000)	45.2	0.3	1.1	0.69	2.37	42.2	0.2	0.7	0.38	1.73
Madison city (48000)	108.8	0.2	2.1	0.17	1.90	102.5	0.0	1.4	-0.02	1.41
Milwaukee city (53000)	255.6	-0.6	4.1	-0.24	1.60	230.2	-1.0	2.8	-0.43	1.21
Balance of Wisconsin	2,214.7	37.7	32.5	1.67	1.42	1,904.8	9.5	19.7	0.50	1.02
Wyoming (56)	261.9	3.9	7.6	1.47	2.82	226.9	1.2	4.4	0.54	1.91

A positive estimate denotes a net undercount whereas a negative estimate denotes a net overcount.

The 2010 census count excludes Remote Alaska.

*Estimate is significantly different from zero.